Project Research

Study Report on the Guidelines for the Management of Safety for Construction Works in Japanese ODA Projects

Final Report

Samples of Practical Tool for Safety

Construction Management on Site

<Volume 3/3>

July 2013

Japan International Cooperation Agency (JICA)

The Overseas Construction Association of Japan, Inc.

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Composition of the Outcomes

The outcomes of the Project Research: "Study Report on the Guidelines for the Management of Safety for Construction Works in Japanese ODA Projects" are composed of the 3 volumes shown below.

This volume is the "Samples of Practical Tool for Safety Construction Management on Site" of the reports. See each report, other than this, for the "Main Text," and "Guidelines (Preliminary Draft)."

First of the 3 volumes:

Main Text	
Introduction	Background of Working out the Guidelines (Preliminary Draft)
Chapter 1	Outline of the Field Study Results
Chapter 2	Current Status of Safety Management in Construction Works in Advanced
	Countries
Chapter 3	Review on Other Guidelines
Chapter 4	Outline of the Guidelines for the Management of Safety for Construction
	Works
Chapter 5	Considering the Operation Policy on the Guidelines

Second of the 3 volumes:

Guidelines	(preliminary draft)
Chapter 1	General Rules
Chapter 2	Basic Policies for Safety Management
Chapter 3	Contents of the "Safety Plan"
Chapter 4	Contents of the "Method Statements on Safety"
Chapter 5	Technical Guideline for Safe Execution (by the Type of Work)
Chapter 6	Technical Guideline for Safe Execution (by the Type of Accident)

Third of the 3 volumes: This document.

Samples of Practical Tool for Safety Construction Management on Site
1 Disk Assessment Form

- 1. Risk Assessment Form
- 2. Operating Instructions
- 3. Record of Meetings
- 4. Weekly & Monthly Report
- 5. Site Inspection Check Sheet
- 6. Occupational Safety & Health Management System
- 7. Partnership with Locals etc.

Project Research Study Report on the Guidelines for the Management of Safety for Construction Works in Japanese ODA Projects

Final Report

Samples of Practical Tool for Safety Construction Management on Site

<Volume 3/3>

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Preface

This Safety Construction Management Booklet is the sequel to the educational material for construction workers drawn up in the Study on Safety Management for ODA Construction Work in Japanese ODA Project, February 2012.

This booklet is to be available to personnel concerned with ODA construction projects, especially the Contractors and the Engineers for the purpose of improving site control, periodical checkout and mitigating risks in order to ensure safety management. It is expected to be used mainly as a reference material to overall controllers, personnel in charge of safety measures and head offices of contractors and engineers.

We wish all entities concerned with the projects to utilize the booklet for enhancing safety management awareness and promoting safety management activities in ODA construction works.

July, 2013

1.1 Case Example 1-1

1) Outline

All possible hazards are listed for each type of work. Considering the effect to each stakeholder (including the Employer, the Contractor, the public, visitors, and young people), degree of seriousness is reckoned in numerical value. Then, degree of seriousness is multiplied by frequency rate to calculate the total risk of each type of work.

Additionally, the risk rate after taking corresponding measures on risk control is re-calculated. If the risk rate is greater than the standard rate, this type of work cannot be launched due to the site regulations.

2) Case Example

The Case Example 1-1 is on the following page.

Risk	Asse	essm	nent	Form									Cá	as	e	Example 1-1
]				1	Т		1	1							
					After Control		C RR									_
				 (RR)RISK RATING (CONSEQUENCE©xFREQUENCY(F)) 1-4 INSIGNIFICANT WORK PROCEED 5-8 ACCEPTABLE WORK PROCEED 9-12 SUBSTANTIAL WORK MUST NOT START 13-16 INTOLERABLE WORK MUST NOT START 		Risk Control Measures										
7			IG (CONS ANT WOI BLE WO TIAL WO ABLE WO		4	RR										
		ВΥ	RISK RATING (O INSIGNIFICANT ACCEPTABLE SUBSTANTIAL 6 INTOLERABLI	re	<u> </u>	щ									_	
	TION PLA		REPARED	(RR)R 1-4 1 5-8 7 9-12 13-16	Before		0							_		_
	HABILITA'		RISK ASSESSMENT PREPARED BY	(F) FREQUIENCY 1 NEGLIGIBLE 2 UNLIKELY 3 LIKELY 4 PROBABLE		L L	OTHER									
	CT Y and RE	SSMENT	sk asses			ų,	٩Y									
	PROJE H, SAFET	RISK ASSESSMENT	RIS			0	VIS									_
	L, HEALTI	RI		 (F) FREQUIE (F) NEGLIGIBL 1 NEGLIGIBL 2 UNLIKELY 3 LIKELY 4 PROBABLE 			PUB									_
	PROJECT OCCUPATIONAL HEALTH, SAFETY and REHABILITATION PLAN RISK ASSESSMENT			Щ	People affected		CON							_		_
OCCUP			(C)ENVIRONMENTAL CONSEQUENCE E1 NO EFFECT E2 MINOR EFFECT E3 MAJOR EFFECT E4 IRREVERSIBLE			ш	_						_		_	
		ENT			Cons equence	-									or g People	
		THOD STATEN	(C)ENVIRONMENTA E1 NO EFFECT E2 MINOR EFFECT E3 MAJOR EFFECT E4 IRREVERSIBLE		Hazard										Visitor YP : Young People	
		APPLICABLE METHOD STATEMENT	(C)HEALTH & SAFETY CONSEQUENCE S1 NEGLIGIBLE/NO EFFECT S2 MINOR INJURIES S3 MAJOR INJURIES S4 FATALTTIES		Activities										yer ontractor blic	
				(C)HEALTH & SAFET' S1 NEGLIGIBLE/NO E S2 MINOR INJURIES S3 MAJOR INJURIES S4 FATALITIES		Reference										E : Employer CON : Contractor PUB : Public

Case Example 1-1

1.2 Case Example 1-2

1) Outline

This is a feedback from the Contractor to the risk assessment prepared by the Engineer, an extract from the occupational safety and health documents which the Contractor submits to the Engineer. The Engineer's request to manage occupational safety and health suitable for local regulations and environment is granted by the Contractor who states that the Safety Plan Document is reviewed accordingly.

This is the case example, which shows both the Engineer and the Contractor acknowledge the importance of risk assessment and perform in coordination with each other.

2) Case Example

The Case Example 1-2 is on the following page.

k Assessment	Form			Case	Example 1-2					
				•						
	1									
RFA Number [] Transmit	tal Ref:								
					Date :					
					Rev.:					
					RFA Type:					
		REQUEST FO	R APPROVAL (RFA)							
To : The Engineer			From : The Contractor							
Reference in Contract :		RFA Title :								
Work Package : S/C RFA No :			Company : Representative :							
Submitted by :										
EHS 🗆	MEP	QA/QC	Engineering							
Note: The attached Health and	d Safety Plan has	s been updated as per	the comments received on Rev	vision C of the s	same.					
RFA has been produced by	:		Furnesstad Weils Of the							
RFA has been reviewed by	:		Expected Work Start on :							
RFA has been approved by	PM :		Signed :							
We enclose (1) set for your	comments/app	proval								
Received Date & Sign										
	EN	GINEER'S APPR	OVAL / COMMENT (EA	AC)						
Engineer's Representative Name :			Signed :		Date :					
Engineer's Assistant Name :			Signed :		Date :					
B Approved with Comment and/or construction.	, incorporate co	omments, resubmit v	oceed with manufacture fabr vithin 7 days. Proceed with n ceed with manufacture, fabric	nanufacture, fa	abrication					
ITEM		COMMENT	S		STATUS					
1										
2										
3 4										
5										
6										
7					1					
1										

Case Example 1-2 2

PROJECT NAME

PROJECT HEALTH & SAFETY PLAN

JV REPLY TO COMMENTS ON REV C

Please note the following in response to the comments received on revision C of MAR-0038. We have revised the previously submitted documents as noted below and have enclosed the revised extracts for your review and approval.

ITEM	COMMENTS	JV RESPONSE
1	Person in-change of Emergencies on Site	Project Emergency Contact List updated an attached in Section 19 of PEHSP
2	Dust Prevention should be added under this section.(Appendix 1 – EMP Section 8)	Please see additional to Section 8 (8.1 & 8.2
3	User of phrase "if practicable" shall be deleted under this section. (Appendix 1 – EMP Section 12)	Has been deleted.
4	Any description that can be expressed more concretely shall take way. Eg. Wheel washing roller or spray nozzle (Appendix 1 – EMP Section 12)	Wheel washing facilities (Wash Through included with washing jet spray has bee specified. We have thoroughly reviewed an updated the document and addressed th specific example.
5	Water pollution mitigation-Surface Run-off - Additional	Section 12.2 Environmental Control Detai has been added as requested and reiterate on control measures in surface run off.
6	The word remain 'marine', Marine shall be deleted.	The word 'marine' has been removed from th Risk assessment as shown in Appendix Project Environmental Management Plan.
7	Section 13-Risk Assessment Requested to re-examine the RA based on construction content and local condition	These have been reviewed and updated please see Appendix 1 Environment Management plan section13.
8	You are requested to submit revised "Work Method Statement for Environmental Monitoring Works together with revised Project Environmental Management Plan.	Attached Revised "Work Method Statement for Environmental Monitoring Works" and revise Project Environmental Plan Rev D.

Case Example 1-2 ③

PROJECT NAME

PROJECT HEALTH & SAFETY PLAN

ITEM	COMMENTS	JV RESPONSE
9	The Environmental Manager has still not been confirmed as of today. When can this key person be on board	The resume of Environmental Manager has been approved by XXX on 02 nd . July 2012. Refer to XXX No:

Rev.	Amendment	Submittal date	Approval Date	Approval Status		
А	First Draft for 9 comment	22 Mar 12	9 Apr 12	С		
В	Revised with changes incorporating comments from XXX and amendments to JV operational health and safety procedures.	7 Apr 12	4 May 12	с		
С	Revised with changes incorporating comments from XXX and amendment to JV to JV operational health and Safety procedures.	12 June 12	25 June 12	с		
D	Revised with changes incorporating comments from XXX and amendments to JV operational health and safety procedures.	4 July 12	ТВА	ТВА		

ISSUE AND REVISION COPNTROL

1.3 Case Example 1-3

1) Outline

First, all hazards are identified for each category of work (Excavation and Backfill, Working at Height, Operations for Heavy Machinery and for Electricity). Then, the effects of the hazards are considered to rank risks of each type of work. Contents of specific measures such as wearing Personal Protective Equipment (PPE) or devising work procedures are to be filled in the last column (Case Example 1-3-1).

Moreover, near miss incidents (i.e. potentially serious incidents) are also to be reported likewise more serious accidents in the same format (Case Example 1-3-2). Near miss incidents, which are more likely to occur, as subjects, more data will be collected for conducting an analysis on risk assessment.

2) Case Example

The case examples 1-3-1 and 1-3-2 are on the following pages.

sk Assess	ment F	orm				Ca	se	Exa	mple	91-3	-1 (1
Project name Health and Safety Plan			Recovery Measures								
	lent Risk Assessment and Management		Control Measures	(PPE, Procedures, etc.)						Title:	Title:
	sessment an		Risk	калкілд							
	Appendix 7: Sample of KISK ASSessment and Management Risk As Proiect:	Contract No.:	Hazard effect	(if the Hazard is released)						Signature:	Signature:
Annotation 7. Commission of Diale	Appendix /: Sample of KISK/ Proiart:	Contractors Name:	Task: Excavation and Backfill Identify Hazard	(Potential to do harm)						Approved: Name:	Prepared: Name:

Ris	sk Assessme	ent F	orm						Ca	se	Exa	mp	le 1-3	8-1 (2)
	Project name Health and Safety Plan				Recovery Measures										
		ntry:			Control Measures	(PPE, Procedures, etc.)							Title:	Title:	
					Risk	Ranking									
		Country:	Contract No.:		Hazard effect	(if the Hazard is released)							Signature:	Signature:	
		Project:	Contractors Name:	Task: Working at Height	Identify Hazard	(Potential to do harm)							Approved: Name:	Prepared: Name:	

Project name Health and Safety Plan **Recovery Measures** (PPE, Procedures, etc.) **Control Measures Risk Assessment and Management** Risk Ranking Contract No.: Appendix 7: Sample of Risk Assessment and Management Country: (if the Hazard is released) Hazard effect Task: Heavy Lifting Operations (Potential to do harm) Contractors Name: Identify Hazard Project:

Case Example 1-3-1 ③

Risk As	sessi	men	t For	m			Cas	se Exa	ample	1-3-	1 ④
Project name Health and Safety Plan				Recovery Measures							
	Risk Assessment and Management ^{ntry:}			Control Measures (PPE, Procedures, etc.)			Title:	Title:			
	sessment a			Risk Ranking							
	Risk As Country:	Contract No.:		Hazard effect (if the Hazard is released)			Signature:	Signature:			
	Project:	Contractors Name:	Task: Electricity	Identify Hazard (Potential to do harm)			Approved: Name:	Prepared: Name:			

Case Example 1-3-2 1

					Project Name:	
					Health ar	nd Safety Pla
						FR: IAR-1
Appendix 4: Accide	ent / Near Miss	Report				
		•	/ ACCIDENT R	FPORT		
То:		INCIDENT	, NOOIDENT N	-		
10.					File No.:	
Details (To be com		•	-	,		
Project:			-			
Contractors Name	:		Contract No.:			
Location of Incider	nt:		Date:	·	Time:	
Weather Condition						
Visibility:			Te	mperatur	e	
Name of lations 1				tion all to		
Sex: Male[] Fe	emale[] Occu	upation:				
Activity at time of A	Accident:					
, touring at anto or ,						
Soverity of Injuny	Estal 1	Poforrad to H		ont Hom	o[] Poturn to Wor	·V[]
Severity of Injury:	Fatal[] Parts of Bod		lospital[] S	ent Hom	e[] Return to Wor Types of Injury	
Severity of Injury: Head		y Injured	lospital[] S	ent Hom		
	Parts of Bod	y Injured Torso		ent Hom	Types of Injury	/
Head	Parts of Bod	y Injured Torso Back	[]	ent Hom	Types of Injury Crush	/ [] []
Head Eyes	Parts of Bod [] [] []	y Injured Torso Back		ent Hom	Types of Injury Crush Fracture	/ [] [] [] [] [] [] [] [] [] [] [] [] []
Head Eyes Ears	Parts of Bod [] [] []	y Injured Torso Back Abdomen Hip	[] [] [] []	ent Hom	Types of Injury Crush Fracture Dislocation	/ [] [] [] [] [] [] [] [] [] [] [] [] []
Head Eyes Ears Face	Parts of Bod [] [] [] [] [] [] [] [] [] []	y Injured Torso Back Abdomen Hip	[] [] [] [] []	ent Hom	Types of Injury Crush Fracture Dislocation Sever	(] [] [] [] [] []
Head Eyes Ears Face Neck	Parts of Bod [] [] [] [] [] [] [] [] [] []	y Injured Torso Back Abdomen Hip Rump Thigh	[] [] [] [] []	ent Hom	Types of Injury Crush Fracture Dislocation Sever Laceration	/ [] [] [] [] []
Head Eyes Ears Face Neck Shoulder	Parts of Bod [] [] [] [] [] [] [] [] [] []	y Injured Torso Back Abdomen Hip Rump Thigh	[] [] [] [] [] []	ent Hom	Types of Injury Crush Fracture Dislocation Sever Laceration Puncture Wound	(] (] (] (] (] (] (] (]
Head Eyes Ears Face Neck Shoulder Arm	Parts of Bod [] [] [] [] [] [] [] [] [] []	y Injured Torso Back Abdomen Hip Rump Thigh Leg	[] [] [] [] [] [] [] []	ent Hom	Types of Injury Crush Fracture Dislocation Sever Laceration Puncture Wound Abrasion	(] (] (] (] (] (] (] (]
Head Eyes Ears Face Neck Shoulder Arm Elbow	Parts of Bod [] [] [] [] [] [] [] [] [] []	y Injured Torso Back Abdomen Hip Rump Thigh Leg Knee	[] [] [] [] [] [] [] []	ent Hom	Types of Injury Crush Fracture Dislocation Sever Laceration Puncture Wound Abrasion Bruise	/ [] [] [] [] [] [] [] []
Head Eyes Ears Face Neck Shoulder Arm Elbow Wrist	Parts of Bod [] [] [] [] [] [] [] [] [] []	y Injured Torso Back Abdomen Hip Rump Thigh Leg Knee Foot	[] [] [] [] [] [] [] []	ent Hom	Types of Injury Crush Fracture Dislocation Sever Laceration Puncture Wound Abrasion Bruise Sprain / Strain	/ [] [] [] [] [] [] [] []
Head Eyes Ears Face Neck Shoulder Arm Elbow Wrist Hand	Parts of Bod [] [] [] [] [] [] [] [] [] []	y Injured Torso Back Abdomen Hip Rump Thigh Leg Knee Foot Ankle	[] [] [] [] [] [] [] []	ent Hom	Types of Injury Crush Fracture Dislocation Sever Laceration Puncture Wound Abrasion Bruise Sprain / Strain Electric Shock	/ [] [] [] [] [] [] [] []
Head Eyes Ears Face Neck Shoulder Arm Elbow Wrist Hand Finger	Parts of Bod [] [] [] [] [] [] [] [] [] []	y Injured Torso Back Abdomen Hip Rump Thigh Leg Knee Foot Ankle	[] [] [] [] [] [] [] []	ent Hom	Types of Injury Crush Fracture Dislocation Sever Laceration Puncture Wound Abrasion Bruise Sprain / Strain Electric Shock Burn	/ [] [] [] [] [] [] [] []
Head Eyes Ears Face Neck Shoulder Arm Elbow Wrist Hand Finger Chest	Parts of Bod [] [] [] [] [] [] [] [] [] []	y Injured Torso Back Abdomen Hip Rump Thigh Leg Knee Foot Ankle	[] [] [] [] [] [] [] []	ent Hom	Types of Injury Crush Fracture Dislocation Sever Laceration Puncture Wound Abrasion Bruise Sprain / Strain Electric Shock Burn Multiple	/ [] [] [] [] [] [] [] []
Head Eyes Ears Face Neck Shoulder Arm Elbow Wrist Hand Finger Chest	Parts of Bod [] [] [] [] [] [] [] [] [] []	y Injured Torso Back Abdomen Hip Rump Thigh Leg Knee Foot Ankle	[] [] [] [] [] [] [] []	Sent Hom	Types of Injury Crush Fracture Dislocation Sever Laceration Puncture Wound Abrasion Bruise Sprain / Strain Electric Shock Burn Multiple	/ [] [] [] [] [] [] [] []
Head Eyes Ears Face Neck Shoulder Arm Elbow Wrist Hand Finger Chest Other:	Parts of Bod	y Injured Torso Back Abdomen Hip Rump Thigh Leg Knee Foot Ankle	[] [] [] [] [] [] [] [] [] [] [] [] [] []		Types of Injury Crush Fracture Dislocation Sever Laceration Puncture Wound Abrasion Bruise Sprain / Strain Electric Shock Burn Multiple	/ [] [] [] [] [] [] [] []
Head Eyes Ears Face Neck Shoulder Arm Elbow Wrist Hand Finger Chest Other:	Parts of Bod [] [] [] [] [] [] [] [] [] []	y Injured Torso Back Abdomen Hip Rump Thigh Leg Knee Foot Ankle Toe	[] [] [] [] [] [] [] [] [] [] [] [] [] []	ID No:	Types of Injury Crush Fracture Dislocation Sever Laceration Puncture Wound Abrasion Bruise Sprain / Strain Electric Shock Burn Multiple Other:	/ [] [] [] [] [] [] [] []
Head Eyes Ears Face Neck Shoulder Arm Elbow Wrist Hand Finger Chest Other: Witness Name:	Parts of Bod	y Injured Torso Back Abdomen Hip Rump Thigh Leg Knee Foot Ankle Toe	[] [] [] [] [] [] [] [] [] [] [] [] [] []	ID No: ID No:	Types of Injury Crush Fracture Dislocation Sever Laceration Puncture Wound Abrasion Bruise Sprain / Strain Electric Shock Burn Multiple Other:	/ [] [] [] [] [] [] [] []

Case Example 1-3-2 (2)

Project Name:

Health and Safety Plan FR: IAR-2/3

Appendix 4: Accident / Near Miss Report

How did Accident Occur	
Description:	Sketch(Continued on separate sheet if necessary)

How could this accident have been avoided State:

(mark x one)

- A Requirements / Guidelines not prepared
- B Requirements / Guidelines not appropriate
- C Requirements / Guidelines not complied

А	В	С	Descriptions
			Leadership and Accountability
			Risk Assessment and Management
			People, Training and Behaviours
			Working with Contractors and Others
			Facilities Design and Construction
			Operation and Maintenance
			Management of Charge
			Information and Documentation
			Customers and Products
			Community and Stakeholder Awareness
			Crisis and Emergency Management
			Incident Analysis and Prevention
			Assessment, Assurance and
			Improvement

Dose Incident relate to the one of the following: If Yes, mark appropriately

Emergency Isolation
Ground Disturbance
Confined Space Entry
Working at Height
Lifting Operations
Vehicle Safety
Management of Change

Does Inci	dent relate to D	ropped Objects?
Yes		
No		

Action to prevent reoccurrence

No.	Action	Responsible Person	Priority	Due Time
1				
2				
3				
4				
5				
6				

Risk Assessment Form	Case Example 1-3-2
	Project Name:
	Health and Safety P
	FR: IAR-
Appendix 4: Accident / Near Miss Report	
What Action is being taken to Prevent Reoccurrence?	
State	
Action: Yes[] No[] Date:
Other Comments:	
Name: Signature:	Title:
Follow-up Review (To be completed by the Engineer's Safety Depa	artment)
Do all actions taken meet the Engineer's satisfaction?	Yes[] No[]
If No, please state further actions required:	
Close out: Yes[] No[]	Date:
Name Signature:	Title:
The Engineer's Review and Comments	
Report to the Employer: Yes[] No[] Lost Work Days:	Light Duty Days:
Name: Signature:	Title:
Distribution: The Employer, The Engineer, Construction Manager, S	

1.4 Case Example 1-4

1) Outline

In this case example, all possible types of accidents (including hazards and hazardous components) are identified for each type of work, and then they are considered to rate degree of seriousness. Degree of seriousness is multiplied by frequency rate to calculate the risks (which helps to decide the priorities of the countermeasures to be taken). Finally, after considering risk mitigation plans, they are listed to evaluate the risks after taking measures. It is notable that even with risk mitigation plans conducted; risk will not be zero as possibility of risk still remains. This case example resembles the Case Example 1-1.

This particular format is used for common construction work. Other formats for road construction, bridge construction, etc. are also available. Users can select to use appropriate format depending on the specific type of work and characteristics. It is considered as an example that the head office of corporation which accepted an offer and obtained OHSAS18001 tends to cope with safety management of overseas projects by a group of inspectors/persons in charge visiting applicable construction sites. .

2) Case Example

The Case Example 1-4 is on the following page.

Type of work	Risky machinery, tools, materials	Legisla tion	Identification of potential risks (assumed accidents)	seriousness : I a p	Degree of Eval possibility b	Evaluation : Priority a*b	ity Emergency event	cy Specific measures for risk mingation (preention measures of harmfulness/dangerousness)	Priority on taking measures	PPE : Personal Protective Equipment	who?	Re-seriousness a	.: Degree of recurrence : b	Re-evaluation : a*b	Risks remained
Operation on stepladders and ladders etc.	Stepladders, ladders, tools		Falling off a ladder	9	8	48 5		Refrain from using heavy and lengthy objects during operation	V	Safety belis	Workers	9	5	12	3
					╞┼	$\left \right $	\square	Refrain from operation by leaning for ward	A						
						+		Refrain from operation that generate reflective force	A						
							+	ACHARLIANI USING MUUCIS WINDON UCAUS Referen from using hydrore of the beight of guer 1 8m	5 2						
			Toppling of a ladder	6	4	24 4		Refrain from using ladders at steps and shores	A.		Workers	6	2	12	3
_							_	Refrain from using ladders on the temporary covers for open pis	A						
								Pay attention to sheeve holes etc. during operation	A						
							_	Refrain from extending legs of ladders especially on steps	EN						
			m		╉	+		Ensure to set a blade latch properly	EN						
			Faung on a ladoer when getuing on and getting off	9	2	12 3		kerram i rom carrying muge or engury oopeas wine gening on and gening off a ladder	A		Workers				
			The Game of ann					Refrain from jumping off a ladder	A						
			Breaking of a scaffolding of a ladder	9	2	12 3	0	Pay attention to sheeve holes etc. during operation	Y		Workers				
		ίλ						Ensure to set a blade latch nromerly	Y						
		əle						Ensure three point mountaining of a ladder	A						
		5 ¥10						Ensure to attach both sides of scaffold boards properly and tightly	EN						
Operations on portable scaffoldines	Portable scaffoldings, tools	W gnib	Falling down scaffoldings	9	8	48 5		Refrain from using heavy and lengthy objects during operation	A	Safety bells	Workers	9	5	12	3
		16 2 21						Refrain from operation that generate reflective for ce	A						
		1 0 L						Refrain from bending forward during oneration	A						
		61						Refrain from having for more than 2 nersons working on a mortable							
		169						scaffolding	A						
		X I						Refrain from stepping onto one portable scaffolding from another	A						
		. º N W	Unstable portable scaffoldings and toppling	9	4	24 4		Adjust the length of legs property, especially when using it on rough surface and at steps	EN		Workers	9	2	12	3
		¥ 1						Refrain from using ladders on the temporary covers for open pits	A						
								Pay attention to skewe holes etc. during operation	A						
1								Ensure to set a blade latch properly	EN						
								Refrain from extending legs of portable scaffolding especially on steps							
			Falling off a ladder when getting on and getting off	9	2	12 3		Refrain from geting on and getting off a portable scaffolding with a heavy or lengthy object	A		Workers				
					$\left \right $	+		Refrain from jumping off a portable scaffolding	A						
Operations on framework scaffoldings	framework scaffoldings, stage planks, ladders, vertical nets, took		Falling off scaffoldings	10	4	40 5		Ensure preventive measures such as handrails and safely nets etc. are checked throughly	A	Safety belts	Foreman	9	5	12	
	roo oa koa ara							If preventive measures are not available, ensure to use safety behs	ď						
			Breaking and breaking apart of scaffoldings	9	4	24 4		Inspect scalfoldings before starting operation	A		Workers	9	5	12	~
								Keep the total weight allowed on scaffoldings below the regulation	A						
								Ensure to attach both sides of scaffold boards properly and tightly (and	Η						

1. Risk Assessment Form

Case Example 1-4 ①

Case Example 1-4 2

Later of operation after confirmation of workss: evacuation A A Call for other works's attention by whicks or microphoness A Cance operator Set a look right above lifting back just after hanging it A Cance operator Check the balance of fined back just after hanging it A Cance operator Use assisting cope to minimus juling A Cance operator Use assisting cope to minimus juling EN Cance operator Use assisting cope to minimus juling EN Cance operator Use a cance of appropriate standard accounding to the weight of backs EN Cance operator Set a cance of appropriate standard accounding to the weight of backs EN Person it dange for cance Set a cance of appropriate standard accounding to the weight of backs A Person it dange for cance
--

Case Example 1-4 ③

Collision with a came 10 4 40 Equipment (alling from tear deck and hings workers during comeyance 6 2 12 Rolling down of a hydrauk: shovel 6 2 12 Rolling down of a hydrauk: shovel 6 2 12 Use of a hydrauk: shovel 6 2 12 Use of a hydrauk: shovel 10 4 40 Collision with a hydrauk: shovel 6 2 12 Use of a hydrauk: shovel 10 4 40 Lucorsistency of signs 6 2 12 Edificit with a dump nuck. 6 2 12 Edification error deck of a 6 2 12 Falling into exervation area 6 2 12 Edification error deck of a 6 2 12 Falling from tear deck of a 6 2 12 Equipment of a truck 6 2 12
--

Case Example 1-4 ④

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	nd Grane equipment not the crane equipment not bue crane operations are not crane area fifting into crane area on the above fifting from text deck and of a crane on the above of a crane area area fifting from text deck and the fifting from text deck and the fifting from text deck and the fifting from text deck and

Case Example 1-4 (5)

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					1		1	-	J		Satery bells and reflective vests for					H		I	H	0	Safety bels and reflective vests for		-		1	H		Protective masks, protective glasses and vibration proof globes		Rafety belks
EN	A	A	A	EN	A	A	4	¢	EN	EN	A	A		A	A	A	A	A	A	A	A	A	A	Α	A	A	A	EN	A	A
Use a hydraulic shovel with crane function (excavator)	Set an off-limit rule for the crane operation space	Prohbit moving backward	Follow the direction guided by sile conductors	Install a safety motion sensor except small rotating type cranes	Drive only on instructed routes and roads	Follow the direction guided by sile conductors	Confirm the signs before starting operation and give the signs in a good	sight of the driver	Set guardrails to prevent automobiles and persons from falling down	Set an appropriate tool for getting on and getting off and fix it well	Guide within the truck driver's visual range	A locate site conductors	Display connectable equipment	Pay good attention to traffic hazard assessment and study the conveyance route well	Refrain from transferring with staying on the rear deck	Check on anchor wires etc.	A locate site conductors	Refrain from crossing a path just before and after the pass of a bulkdozer	Clearly design and draw the working space and keep it a off-limit zone	Manage the height of the excavation surface and always maintain the equilibrium slope	Guide within the true k driver's visual range	A locate site conductors	Display connectable equipment	Pay good attention to traffic hazard assessment and study the conveyance route well	Refrain from transferring with staying on the rear deck	Check on anchor wires etc.	A locate site conductors	Check the ground first and fully extend outleggers	Refrain from approaching close to buckets while they are moving	Check on the crare operation took such as shackles, clamps and wire respected before operation
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	Collision with a hydraulic shovel				Collision with a dump truck		smis jo noreisismo ol	suffice to A strategio and	Falling into excavation area		Collision between a truck and a site conductor	Rolling down of a truck			Falling down the rear deck of a running vehicle	Equipment falling from rear deck and hitting workers during convevance	Collision with a truck	Collision with a bulhczer		Workers being buried alive by kındslides	Collision between a truck and a site conductor	Rolling down of a truck			Falling down the rear deck of a running vehicle	Equipment falling from rear deck and hitting workers during conveyance	Collision with a truck	Overturn of a concrete pump vehicle	Collision with a bucket	Inspection of crane not carried out
											Common Operation 7: Dump trucks			£1.	rk Safé	o W gr	iib11	8 8 9)	0 /	61 169	 Common Operation 7: Trucks (substitute usage, 準用?) 									Common Operation 5: Movable cranes
																					Concrete pump vehicles, concrete mixing vehicles, vibrators, concrete									Movable cranes, trucks, round saws, boards, timbers
																					10 Base concrete placing									Fabrication and dismantling of frameworks

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Impropriate crate openations 6 2 12 Workers entering into crane 6 2 12 Workers entering into crane 6 2 12 Under howing back and forth 10 4 40 Lifted hack moving back and forth holes some obler objects 10 4 40 Finding of fifted hacks 10 4 40 40 Finding of fifted hacks 10 4 40 40 Finding of fifted hacks 10 4 40 40 Determent of a crane 6 2 12 44 40 More than the some observative for the some observative f	Dispose of defective equipment and materials Select the monercrane operation process and look that are suitable for	target kads before the kauch of operation (kegfu, shape and weight etc.)	Evacuate from the working radius before the launch of operation	Launch of operation after confirmation of workers evacuation	Call for other worker's attention by whistles or microphones	Set a hook right above Hiting leads	Check the balance of lifted back just after hanging it	Re-do when some bace is unbalanced	U se assisting rope to minimize johing	Ensure to fix lifted loads tightly and use appropriate lifting tools such as wire-and sucketc.	Use a crane of appropriate standard according to the weight of loads	Set an off-limit rule for the crane operation space	Use an appropriate crane (calculate and plan with 90% of the total capacity)	Check the ground first and fully extend outriggers	Strictly follow the safe working load defined at zero loading capacity (crane carrying type)	Continuous measurement of titled loads by measuring gauges through the coversion	Always check the warning light and stop operation when its color changes from blue to vellow	Check the length and angle of the jib and decide the weight of lifted loads accordingly	Check on lifting weight properly (crane carrying type)	Follow the proper operation suitable for the machine performance, especially for the safe working load etc.	Set an off-limit rule for the crane operation space	Prohibit moving backward	Follow the direction guided by site conductors	inskila a satety motion sensor except striat rotating type cranes	Check on anchor wires etc.	Guide within the truck driver's visual range	Allocate site conductors	Display the road shoulder	Pay good attention to traffic hazard assessment and study the conveyance route well	Refrain from transferring with staying on the rear dock	Check on anchor wires etc.	Allocate site conductors
Improprise came operations 6 2 Warkers entering into came 6 2 Operation area 6 2 Infeed bask moving bask and fronh 10 4 Infeed bask moving bask and fronh 10 4 Ending of fried basks 10 4 Falling of fried basks 10 4 Third peosons break into came 6 2 Operation area 6 2 Operation area 6 2 Operation area 6 2 Intervention 0 4 Doetnum of a crane 6 2 Equiporent failing from new dock and 6 2 Intervention 10 4 Doetnum of a crane 6 2 Equiporent failing from new dock and 6 2 Intervention 10 4 Ending down of a mock 6 2 Intervention 10 4 Ending down of a mock 6 2			3			5				ş			4								5					5	3			4	3	3
Improprist came operations 6 Wardness entering into came 6 Wardness entering into came 6 Infect hask moving back and forth 10 Infect hask moving back and forth 10 Falling of fitted hasks 10 Falling of fitted hasks 10 Frailing of fitted hasks 10 Printip peronic transe 6 Overhann of a came 6 Content 6 Equiporent failing from near dock and a site 10 Equiporent failing from near dock and a site 10 Incols 6 10 Equiporent failing from near dock and a site 10 Incols 6 10 Equiporent failing from near dock and a site 10 Incols 6 10 Equiporent failing from near dock and a site 6 Incols 6 10 Ending down of a mock of a site or envectant 6 Interse 6 10 Ending down of a mock or envectant 6 Ending of and a site from near dock and 6 Ending down of a mock or envectant 6		13	12			40				017		13	К								06				7	09	12			24	12	12
Improprise came operations Workers entering into came Workers entering into came operation area Interl tank moving hack and forth Interl tank moving hack and forth Interl process freek in to crane Printiperons' freek in to crane Overhann of a crane Overhann of a crane Collision with a crane Collision with a crane Collision with a crane Equipment failing from near dock and Incols Control Collision with a crane Collision with a crane Collision with a crane Equipment failing from near dock and Incols Control Collision with a crane Collision with a crane Equipment failing from near dock and Incols Collision with a crane Ending down the near dock of a Incols Collision with a tork Ending down the near dock of a Ending trom near dock and Integer on workers		2	2			4				4		2	4								4				7	4	2			4	2	2
Inappropriate came op Workers entering into operation area and frem hindling some and frem hindling some falling of lifed hods. Falling of lifed hods inter enter presention area overhum of a came overhum of a came californe with a came between a true hindle drown of a mul- trucks. Control of a mul- hindling drown of a mul- lifeling drown of a mul- furding advort of a mul- hindling advort of a mul- hindling advort of a mul- furding advort of a mul- hindling at orde. Culision with a truck.		9	9			10				01		9	9								10				9	10	9			9		9
Common Operation 7:		Inappropriate crane operations	Workers entering into crane operation area			Lifted loads moving back and forth and then hitting some other objects	P			Falling of lifted loads		Third persons' break-in to crane operation area	Overturn of a crane								Collision with a crane			Equipment falling from rear deck and	hitting workers during conveyance	Collision between a truck and a site conductor	Rolling down of a truck			Falling down the rear deck of a running vehicle	Equipment falling from rear deck and hitting workers during convevance	Collision with a truck
															. 9											n Operation 7:						

Case Example 1-4 6

Case Example 1-4 $\overline{\mathcal{T}}$

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		-				-			1				2								-				-			-		
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Workers	Workers	Sile conductor	Foreman	Foreman		Workers	Foreman	Warkers	Foreman	Workers	Foreman	Operators	Operators	Jason in charas for crane	perations		Person in charge for crane operations	Crane operator			Crane operator				Crane operator		Person in charge for crane portations	Person in charge	Operators	
Protective masks, protective glasses and V safety bels		ùr.	rathic navigator	1			<u><u> </u></u>	~	Protective masks, protective glasses and F vibration proof globes	N	H	0			Safety belts 0		H 0	0							<u> </u>		<u>1</u>			
¥	A	A	A	A	A	A	A	A	V	A	A	EN	Ρ		A	EL	EN	Υ	A	Α	A	A	EN	EN	EN	EN	A	EN	EN	A
Carry out inspection of blade safety sensors before staring operation	Carry out inspection of working clothes before starting operation	Guide within the truck driver's visual range	Allocate site conductors	Display the road shoulder	Pay good attention to traffic hazard assessment and study the conveyance route well	Refrain from transferring with staying on the rear deck	Check on anchor wires etc.	Albocate site conductors	Double check the strength of fake work	Check the condition of concrete formshoring framework	Divide the back (weight) into several groups	Check the ground first and fully extend outriggers	Wearing protective equipment (gloves)	Check on the create constation tools such as 'shackles' claims and wise	CHECK ON THE CLAIR OPERATION ROUS SHELT AS: SHE KASS, UMILIP AND WHE TOpes etc. before operation	Dispose of defective equipment and materials	Select the proper crane operation process and took that are suitable for target kack before the hunch of operation (length, shape and weight etc.)	Evacuate from the working radius before the launch of operation	Launch of operation after confirmation of workers evacuation	Call for other worker's attention by whistles or microphones	Set a hook right above If ting back	Check the balance of lifted loads just after hanging it	Re-do if unhalanced condition is recognized	Use assisting rope to minimize joling	Ensure to its littled loads tightly and use appropriate litting tools such as wire-net sack etc.	Use a crane of appropriate standard according to the weight of loads	Set an off-limit rule for the crane operation space	Use an appropriate crame (calculate and plan with 90% of the total canacity)	Check the ground first and fully extend outriggers	Strictly follow the safe working load defined at zero loading capacity (crane carrying type)
3	3	22	3			4	3	3	5			3	4		3		3	3			5				5		3	4		
10	12	69	12			24	12	12	80			12	20 .		12		12	12			64				6		12	24		
-	2	4	2			4	2	2	8			2	2		2		2	2	T		4				4		2	4		
10	9	0	9			6	9	9	10			9	10		6		6	9			10				10		9	6		
Getting a cut by cutting blades	Workers' clothes or globes getting entangled in a machine	Collision between a truck and a site conductor	Rolling down of a truck			Falling down the rear deck of a running vehicle	Equipment falling from rear deck and hitting workers during conveyance	Collision with a truck	Collapse of framework structures			Rolling down of a concrete pump vehicle	Workers getting stuck by equipment	Increation of creane equipment not	tarpetation of came equipation not		Inappropriate crane operations	Workers entering into crane oneration area	nam normiado		Lifted loads moving back and forth and then hitting some other objects				Falling of frited loads		Third persons' break-in to the crane operation area	Overturn of a crane		
		Common Operation 7: Trucks (substitute usage、準用?)							vrsieč ži	D M	8 u i	ibisgo	101	Common Oneration 5:		1.0	N M V	1												
		Concrete pump vehicles, concrete mixing vehicles, concrete vibrators												Monokla crones trucks	building materials															
		12 Concrete placement												Cotting and removal of																

Case Example 1-4 (8)

A	55 A	s EN	A	Y	A Chief worker		A	EN	A Foreman	A Safety bels and reflective vests for	A traffic navigator Foreman	A	V a	A Workers	A Foreman	A Workers	A Foreman	EN Qualified person	A Foreman	A Quaffied person	A Foreman	EN Qualited person	A	A Safety bells renson in charge for crane	EL		A Crane operator	A	A	A Crane operator
Continuous measurement of lifted leads by measuring gauges through the operation	Always check the warning light and stop operation when its color changes from blue to yellow	Check the length and angle of the jib and decide the weight of lifted bads accordinely	Check on lifting weight properly (crane carrying type)	Follow the proper operation suitable for the machine performance, reservible for the safe working had rete	Set an off-limit rule for the working space	Prohibit moving backward	Following guides by site conductors	Install a safety motion sensor except small rotating type cranes	Check on anchor wires etc.	Guide within the truck driver's visual range	Alocate site conductors	Display the road shoulder	Pay good attention to traffic hazard assessment and study the conveyance route well	Refrain from transferring with staying on the rear deck	Check on anchor wires etc.	Alocate site conductors	Using a safety belt property with a main rope	Checkup with an insulation resistance meter	Check on the inspection record	Check on the setup resistance value	Check on the installation condition	Check on power distribution boards periodically	Déplay comectable equipment	Check on the crane operation tools such as: shackles, clamps and wire trones or befrave moreation	Dispose of defective equipment and materials	Select the proper crane operation process and took that are suitable for target bads before the launch of operation (length, shape and weight etc.)	Evacuate from the working radius before the hunch of operation	Launch of operation after confirmation of workers' evacuation	Call for other worker's attention by whistles or microphones	Set a hook right above lifting loads
					5					5	3			4	3	3	3	4		4				3	_		.9			5
					40				12	40	12			24	12	12	12	20		20		12		12		12	12			40
					4				3	4	2			4	2	2	2	2		2		5		2		2	2			4
					10				9	10	9			9	9	9	9	10		10		9		9		9	9			10
					Collision with a crane				Equipment falling from rear deck and hifting workers during conveyance	Collision between a truck and a site conductor	Rolling down of a truck			Falling down the rear deck of a running vehicb	Equipment falling from rear deck and bitting workers during conveyance	Collision with a truck	Falling down during fabrication or dismantling of temporary structures	Electrical shock by incomplete coverage		Electrical shock by a lack of an earthing device		Malfunction of a power distribution board		Inspection of crane equipment not	V40 10 100	Inappropriate crane operations	Workers entering into crane operation area	A NUMBER OF		Lifted loads moving back and forth and hitting some other objects

Case Example 1-4 9

Image: constraint of the							2							_			ſ		+						3			Ϋ́	+		+
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interval interval Check the balance of the bala big that and the fingth and second mode is compared. A A A is i				Crane operator		Person in charge for crane merations	Person in charge	Operators		Operators								UTEL WORKER	Uperators			Foreman	Foreman	Warkers	Chief worker	Warkers		Workers	WORKETS		
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k 10 4 40 kin totale 6 2 12 ekin totale 10 4 40 ekin totale 10 4 40 ekin totale 10 2 20 ekin tota	Check the balance of lifted boads just after hanging it	Re-do if unbalanced condition is recognized	Use assisting rope to minimize jolting	Ensure to fix lifted hads tightly and use appropriate lifting tools such as wire-net sack etc.	Use a crane of appropriate standard according to the weight of loads	Set an off limits rule at working areas	Using cranes with proper capacities	Check the ground first and fully extend outriggers	Comply strictly with load ratings (crane carrying type)	Continuous measurement of lifed bads by measuring gauges through the	operation	AM ays cucck ure waining ingut and sup operation when its count changes. from blue to vellow	Check the length and angle of the jib and decide the weight of lifted loads	accordingly	Check on litting weight properly (crame carrying type)	Follow the proper operation suitable for the machine performance,	espectative for the safe working man end.	Det an out-minit rule tor the craite operation space	Profitibit mowing backward	Follow the direction guided by site conductors	Install a safety motion sensor except small rotating type cranes	Confirmation of slings installment	Appoint and allocate chief workers	Fix short struts and walings with wedges etc.	Using a safety belt properly with a main rope	We arig protective couprient (glasses)	-	Def backfire preventive measure to a gas cylinder	Rel fam ir om bacing compusore materia is ar ound	Detecture gas statistic by toring study water A violitier embility train contacting and	AVOXIIIE SUIUBII IDJIIE COVICI ILES CIV.
k 10 4 kin b cane 10 4 e 10 4 e 6 2 e 6 2 mon cane 6 2 e 6 2 mon cane 10 4 mon cane 10 2 sufficienting 6 2 curring cuting 6 2 idring cuting 6 2 igftee 10 2 igftee 10 2 igftee 10 2				5		3	3											•					4	4	4			4 4	+		_
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Falling of lifted Joak Falling of lifted Joak Thinki persons 'break-in to cranec Operation atea Overturn of a crane Overturn of a crane Collikinn with a crane Equipment falling from reat deck and hitting over least ching: comeyance Collikinn with a crane Collikinn with a crane Equipment falling from reat deck and hitting over distort struts and false variation Falling down of short struts and Falling from a short strut Falling from a short strut Fise breakout operation Fise breakout free breakout				10		9	9										VI	D1					10	10	10	6	4	01	II		
				Falling of lifted loads		Third persons' break-in to crane operation area	Overturn of a crane											COLISION WILL A CTARE				Equipment falling from rear deck and htting workers during come yance	Collapse of short struts and fake work by mal-assembly	Falling down of short struts and walnes	Falling from a short strut	Eye injuy by spark during cuting operation		읉	L'ITE DICANOUI		
da, we ling, mchines, orgen, accrytere																										LS we king and Cas we king much LS me kidown operation (oxygen, acceluter					

2 Operating Instructions

2.1 Case Example 2-1

1) Outline

Case Example 2-1-1 is one of the corporate documents which informs persons concerned with the project to suspend the operation until project recommencement approval by the relevant division after taking proper countermeasures.

In relation to the above, this document is used as notification in the case a sort of hazard had been identified through corporate inspection but no countermeasure has been taken yet. This is a final notification to urge whoever in concern to take immediate actions for safety countermeasures within a given deadline (Case Example 2-1-2).

2) Case Example

The Case Examples 2-1-1 and 2-1-2 are on the following pages.

Operating Instructions Cas	se Example 2-1-1
----------------------------	------------------

Pause Not	ice
Safety Department	No.
your section has a severe hazard regulations. This notice is to inform	ole of enterprise management, by inspection, which is not able to comply with the relevant n you to suspend your operation on t department after correction.
c.c	
Date:	

Operating Instructions	Case Example 2-1-2
Notice of Potential	Risk Correction
Project Department	Safety Serial No.
Unit: '	
Responsibility	
Last inspection found there was a potential hazard, a name of project department with safety serial No now. For safety, health and smooth production, action to rectify the present status by the date of	o,_, but still stay unchanged until this is a final notice of taking prompt
C.c.	
Date:	

2.2 Case Example 2-2

1) Outline

These two case examples show a checklist targeting for cranes operated under mechanized construction (Case Example 2-2-1) and a defect notification form on them (Case Example 2-2-2). The former consists of 12 check items and each check item is supposed to be filled out by a crane operator. Should one fault be found on a crane truck, the latter will be noticed and the crane truck cannot be in operation according to the site regulations. In the latter format, a crane operator should describe a fault found on a crane, for which a manager of lifting operation needs to take countermeasures and describes them in details (such as when, where and what).

2) Case Example

The Case Examples 2-2-1 and 2-2-2 are on the following pages.

Operating Instructions

Case Example 2-2-1

DANE							Report No):
AN	INSPECT	ION CHECI	KLIST					
carry 1. A ca 2. B 3. A 4. H 5. Sa 6. Sv 7. H 8. W 9. H 10. A sla 11. Cl 12. Co	out the foll ccess to the use a person oom is not if pparent def ook block i affety catch of wivel ball is oisting wird 'inch drums ouse keepir Il safety de ewing limit lutch and be ounter-weig must be pr	owing routine e cranes cab in to slip. twisted, sway ects on the sl s not cracked on the hook i s able to rotat e ropes are fro s and winches ng in the cabi evices incluc switches and rakes are in g	in is free from yed or dropped. lewing table an l, opened up or s not cracked, of the freely. (If any ee from kink, c s are free from n is good. ding warning b d overloading a good working o e properly sited ed and entered C - Corrected	n grease or d chassis. deformed. opened up o y) orrosion or visible defe horn, hoisti larm are in rder.	other sli or deforme fraying. cts. ng limit good wor by the cra	ppery subs ed. switch, tro king order.	tance, whi	ch may
No one sl	hall operat	e the crane i	f any one of th		not in or	der		
No one sl nform th	hall operat e lifting suj	e the crane i pervisor in-ch	narge immediat	tely.			Sunday	Domoska
nform th Item	hall operat	e the crane i			not in or	der Saturday	Sunday	Remarks
No one sl nform th Item 1	hall operat e lifting suj	e the crane i pervisor in-ch	narge immediat	tely.			Sunday	Remarks
No one sl nform th Item 1 2	hall operat e lifting suj	e the crane i pervisor in-ch	narge immediat	tely.			Sunday	Remarks
No one sl nform th Item 1 2 3	hall operat e lifting suj	e the crane i pervisor in-ch	narge immediat	tely.			Sunday	Remarks
No one sl nform th Item 1 2 3 4	hall operat e lifting suj	e the crane i pervisor in-ch	narge immediat	tely.			Sunday	Remarks
No one sinform the litem 1 2 3 4 5	hall operat e lifting suj	e the crane i pervisor in-ch	narge immediat	tely.			Sunday	Remarks
No one sl nform th 1 2 3 4 5 6	hall operat e lifting suj	e the crane i pervisor in-ch	narge immediat	tely.			Sunday	Remarks
No one sl nform th 1 2 3 4 5 6 7	hall operat e lifting suj	e the crane i pervisor in-ch	narge immediat	tely.			Sunday	Remarks
No one sinform th Item 1 2 3 4 5 6 7 8	hall operat e lifting suj	e the crane i pervisor in-ch	narge immediat	tely.			Sunday	Remarks
No one sl nform th 1 2 3 4 5 6 7 8 9	hall operat e lifting suj	e the crane i pervisor in-ch	narge immediat	tely.			Sunday	Remarks
No one sl nform th 1 2 3 4 5 6 7 8 9 10	hall operat e lifting suj	e the crane i pervisor in-ch	narge immediat	tely.			Sunday 	Remarks
No one sinform th Item 1 2 3 4 5 6 7 8 9 10 11	hall operat e lifting suj	e the crane i pervisor in-ch	narge immediat	tely.			Sunday	Remarks
Item 1 2 3 4 5 6 7 8 9 10	hall operat e lifting suj	e the crane i pervisor in-ch	narge immediat	tely.			Sunday	Remarks

Operating Instructions

Case Example 2-2-2

Form S3	Report No:
CRANE FAULT NOTIFICATIO	DN FORM
Name and Signature of Operator: _	
Crane to be operated: Mobile/Craw	
Location of Crane:	
Date of Notification:	
Name of Lifting Supervisor:	
	ed crane wished to inform you (the Lifting Supervisor) that the
crane has the following faults/defe	cts after my routine check:
Please arrange to make it good. REMEMBER ACTION TAKEN (State below Whom, What & Whe	
REMEMBER ACTION TAKEN	
REMEMBER ACTION TAKEN (State below Whom, What & When	
REMEMBER ACTION TAKEN	
REMEMBER ACTION TAKEN (State below Whom, What & When	
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REMEMBER ACTION TAKEN (State below Whom, What & When	
REMEMBER ACTION TAKEN (State below Whom, What & When (State below Whom, What & When ACTION COMPLETED (State Date & Time)	n remedial action to be done)
REMEMBER ACTION TAKEN (State below Whom, What & When (State below Whom, What & When ACTION COMPLETED (State Date & Time)	n remedial action to be done)
REMEMBER ACTION TAKEN (State below Whom, What & When (State below Whom, What & When ACTION COMPLETED (State Date & Time)	n remedial action to be done)

2.3 Case Example 2-3

1) Outline

This form is a sample of work permission based on the statistics that there have been lots of accidents in which many newly-employed workers have been involved (Case Example 2-3-1). The types of dangerous work (such as working in confined space, in high temperature, in excavation, under high-voltage cables, and near public facilities), details of work, risk mitigation measures etc. are listed. A newly-employed construction worker is to sign this document agreeing to work under aforementioned conditions and cancellation of permit.

Similar to the above is a permission of loading operation after temporary construction work (Case Example 2-3-2). It is important as the possibility of accidents under temporary construction work is higher. Listed in this document are check items such as formwork, falsework, strutting, excavation and others. It can be recognized it is a good example in that a number of inspectors simultaneously check the temporary construction works in order to secure the safety.

2) Case Example

The Case Examples 2-3-1 and 2-3-2 are on the following pages.

Operating Instructions

Case Example 2-3-1

		Project Name:						
OCCUPA	TIONAL, HEAL	TH, SAFETY and I	REHABILITATION	PLAN				
PACKAGE C								
	PACKAGE C PERMIT TO WORK – PF48 SITE PERMIT NO. DATE PERMIT VALIDITY ()DAYS: Max 7 days PART 1 PART 1 PART 1 CLOSE PROXIMITY TO DIG CLOSE PROXIMITY CLOSE TO OTHER(pls-state) ARRIED OUT: TO BE APPLIED: (REFER TO RISK ASSESSMENT IF NECESSARY)							
WEIP/PKG <u>/</u> 48 REF*	SITE	PERMIT NO.	DATE					
PERMIT REQUIRED FOR:								
		D. (REEED TO DISK						
SPECIFIC ATMOSPHERE M								
AUTHORIZATION: I certify that the location spec	ified and detailed	d above has been in	spected and all the	precautions detailed have				
Signed:								
RECEIPT: I certify that I have read and u are taken:	inderstood this pe	ermit and I shall ensi	ure that the precautic	ons detailed in PART ONE				
Signed:	Date:	Time:	Print Name:					
CLEARANCE: The work detailed in PART O withdrawn from the area.	NE has been/not	been completed an	nd all the equipment	and personnel have been				
Signed:	Date:	Time:	Print Name:					
CANCELLATION: This permit is hereby cancelle	ed.							
Signed:	Date:	Time:	Print Name:					

Operating Instructio	ons
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Case Example 2-3-2

Project Name
PROCEDURE NO.16-SAFETY MANAGEMENT
PERMIT TO LOAD/CONTINUE – PF 83
WORKS SECTION/LOCATION: DATE: WEIP/PKG/ REF:
1. TEMPORARY WORKS ITEM (PLEASE TICK) Image: Formwork Falsework Image: Formwork Falsework
2. INSPECTION DETAILS A JOINT INSPECTION IS REQUESTED FOR THE ABOVE TEMPORARY WORKS TO ALLOW THE FOLLOWING ACTIVITY OF: TO PROCEED
DATE OF INSPECTION: REQUESTED BY:
3. CONFIRMATION I, CONFIRM THAT THE ABOVE TEMPORARY WORKS HAVE BEEN INSPECTED AND THAT THE FOLLOWING ACTIVITY MAY/MAY NOT PROCEED. (PLEASE REFER TO DETAILS BELOW.) SIGNED
POSITION DATE:
4. COMMEMTS/DETAILS

2.4 Case Example 2-4

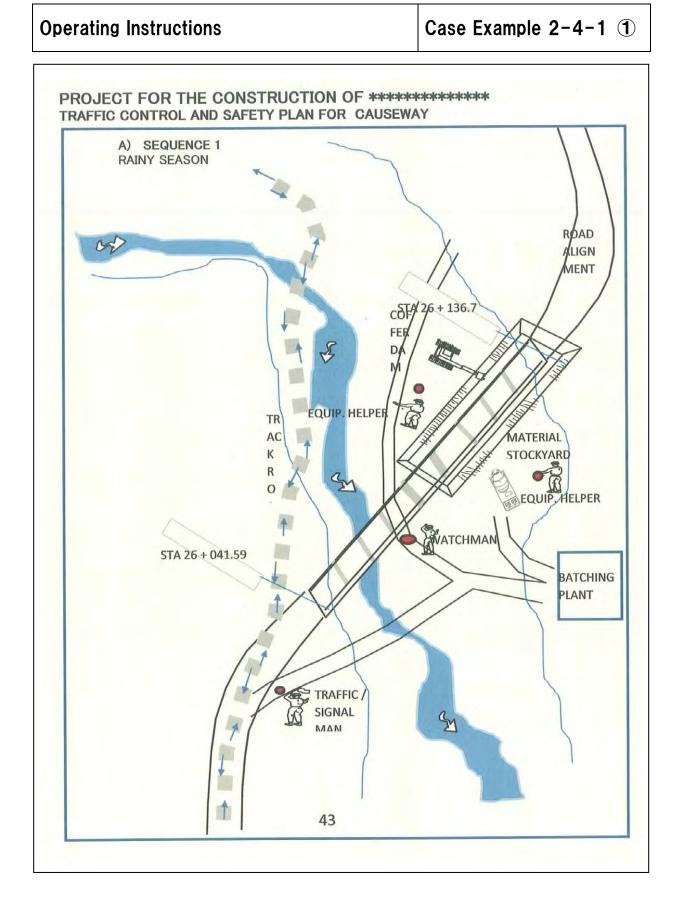
1) Outline

These are illustrations (for operations of soil extraction, slope cutting, masonry work, spraying, retaining walls installation, pavement, placing grid concrete and culverts installation etc.), which visually explain traffic control and safety plan for the site. As the sample is a road construction under severe geological features and weather condition, which leads to a higher possibility of landslides, this document is an outcome of efforts for safety assurance of the project.

One of well-devised points of Case Example 2-4-1 is that the alignment of causeway is changed in rainy and in dry seasons. Case Example 2-4-2 is an easy to understand illustration which depicts expected danger of shotcrete which involves a number of construction machinery. In addition, accidents caused by a third party are common during construction, excavation and banking on current roads. Case Example 2-4-3 thoroughly expresses method of construction and traffic safety measures as well as arrangement of construction machinery in both a ground plan-map and a longitudinal plan-map (Case Example 2-4-3).

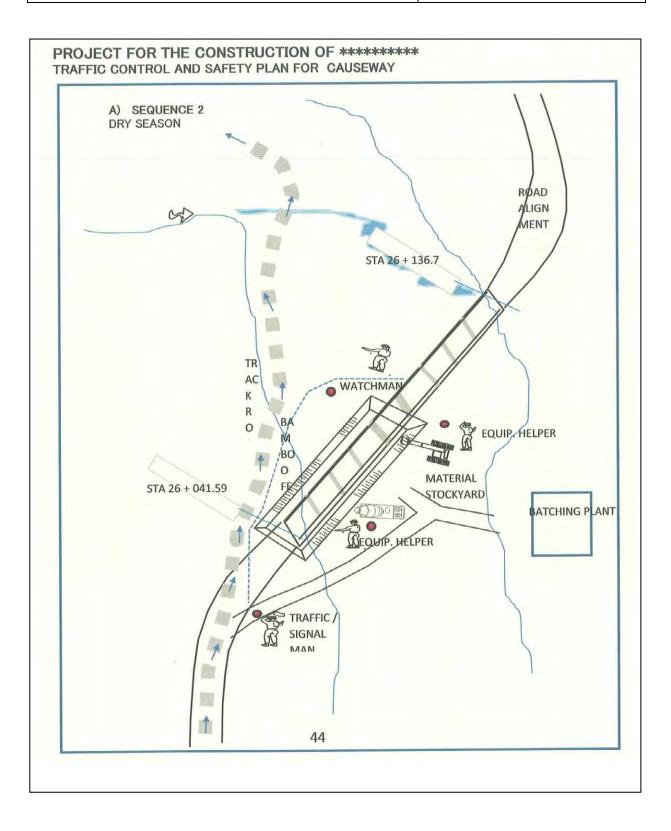
2) Case Example

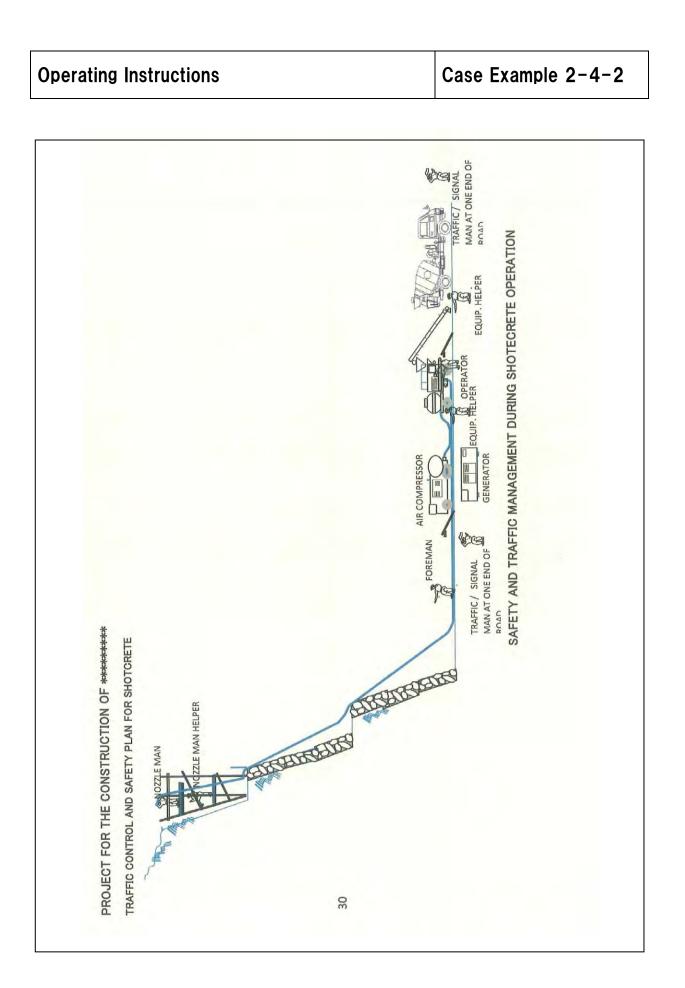
The Case Examples 2-4-1, 2-4-2 and 2-4-3 are on the following pages.



Operating Instructions

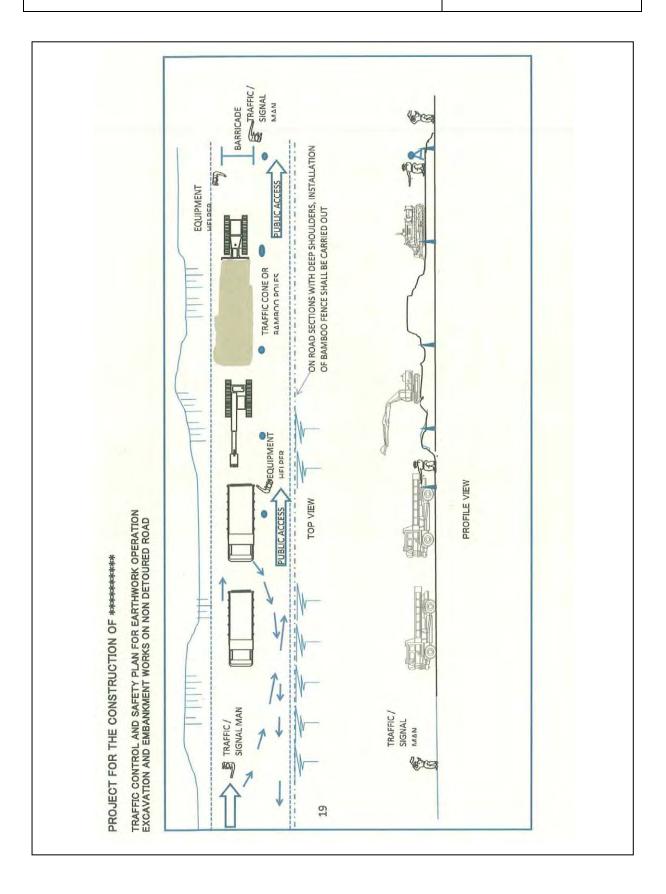
Case Example 2-4-1 ②





Operating Instructions

Case Example 2-4-3



2.5 Case Example 2-5

1) Outline

Having already mentioned that newly-employed construction workers are more likely to encounter accidents, this document (Case Example 2-5-1) is a questionnaire for them, which intends to raise safety awareness. A newly-employed construction worker is requested to fill in ID number, company's name, qualifications and licenses obtained, contact address in emergency case, etc. and sign an oath of safety cooperation such as attending entry education course and wearing PPE etc.

Moreover, Case Example 2-5-2 is a notification form of dangerous material and harmful substances to use, which includes person in charge of handling of hazardous materials, names of hazardous materials, purposes of use, places of use, places of custody, period of use and ventilation. By signing these documents themselves, it is expected that new construction workers will be more aware for securing safety.

2) Case Example

The Case Examples 2-5-1 and 2-5-2 are on the following pages.

Operating Instructions

Case Example 2-5-1

										DATE	of new	Entry			No.
										Year		moi	nth	day	
									mation when the	• •			es is gei	nerated and	day ated and main th Age ationship ion and license
<u>J111</u>	tractor's management for safety and Project ID					I COIIII		Derson	Explanatory Notes			55 ut.			
			subconti	actor c	comp	bany'	s nan	ne	Affiliated c	company's	s name	;			
	Company name											-			1
	First Name			Given Name			Occupation	n	rs of rience	C	ate of	birth	Age		
													/ /		
	Alphabet		/	Alphabet							years		1	1	
Address address address address TEL TEL Qualification and license name A Qualification and license name A			TEL	EL · ·		•									
WITHOUT	ct in ency ie	address													
	Contact in emergency case	TEL							Nan	ne			R	elations	hip
question fil	se		Qua	alification	n and	licens	e nam	е		Acquire	ed year		Qualifi	cation and number	
rson in	Your qualification and license														
i ne pe	ation ar														
	r qualifi														
	лод														
	bath			-				-	-	-					
	Make an oath						-		of the this ut fail.), and		-	-		ne neim	et, the
	Ma	date		yea				onth	day	Signature					
		(opinion)							Project Manager	Deput Projec Manag	rt			in

Operating Instructions	Case Example 2-5-2
------------------------	--------------------

No.6 Sign (Day) (Month) (Year) Notification of pit dangerous material and harmful matter to use Project office name (Day) (Month) (Year) Project office name						
Notification of pit dangerous material and harmful matter to use Project office name Project manager name Company name (Subcontractor) Person in charge Material Material Purpose and using location Person in charge Person in charge Image: Company name (Subcontractor) Person in charge Operation Quantity Description Image: Company name (Subcontractor) Person in charge Operation Image: Company name (Subcontractor) Person in charge Operation Image: Company name (Subcontractor) Image: Company name (Subcontract	No.6			Sign		
Project office name Project manager name Company name (Subcontractor) Person in charge Sign description				(Day)	(Month) (Year)
Project manager name Company name Company name Sign Company name Sign Person in charge Sign description description Material Specification Quantity Description Material Specification Quantity Description Purpose and Image: Company name Image: Company name Image: Company name Stock location Image: Company name Image: Company name Image: Company name Person in charge Image: Company name Image: Company name Image: Company name Material Name of Material Specification Quantity Description Material Image: Company name Image: Company name Image: Company name Image: Company name Purpose and Image: Company name Image: Company name Image: Company name Image: Company name Stock location Image: Company name Image: Company name Image: Company name Image: Company name Person in charge Image: Company name Image: Company name Image: Company name Image: Company name Ventition n away and Image:		Notification of pit	dangerous mater	rial and harmful n	natter to use	
Project manager name Company name Company name Sign Company name Sign Person in charge Sign description description Material Specification Quantity Description Material Specification Quantity Description Purpose and Image: Company name Image: Company name Image: Company name Stock location Image: Company name Image: Company name Image: Company name Person in charge Image: Company name Image: Company name Image: Company name Material Name of Material Specification Quantity Description Material Image: Company name Image: Company name Image: Company name Image: Company name Purpose and Image: Company name Image: Company name Image: Company name Image: Company name Stock location Image: Company name Image: Company name Image: Company name Image: Company name Person in charge Image: Company name Image: Company name Image: Company name Image: Company name Ventition n away and Image:						
Company name (Subcontractor)	Project office	ename				
(Subcontractor) Person in charge Sign description description Material Specification Quantity Description Material Image: Sign Image: Sign Image: Sign Material Specification Quantity Description Image: Sign Image: Sign Image: Sign Image: Sign Material Image: Sign Image: Sign Image: Sign Purpose and using location Image: Sign Image: Sign Image: Sign Stock location Image: Sign Image: Sign Image: Sign Person in charge Image: Sign Image: Sign Image: Sign Ventilation a way and classify Image: Sign Image: Sign Image: Sign	Project manage	r name			_	
(Subcontractor) Person in charge Sign description description Material Specification Quantity Description Material Image: Sign Image: Sign Image: Sign Material Specification Quantity Description Image: Sign Image: Sign Image: Sign Image: Sign Material Image: Sign Image: Sign Image: Sign Purpose and using location Image: Sign Image: Sign Image: Sign Stock location Image: Sign Image: Sign Image: Sign Person in charge Image: Sign Image: Sign Image: Sign Ventilation a way and classify Image: Sign Image: Sign Image: Sign						
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Name of Material Specification Quantity Description Material Image: Construction Image: Construction Image: Construction Image: Construction Material Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Purpose and using location Image: Construction Image: Construction Image: Construction Image: Construction Period of service (Day) (Month) (Year) to (Day) (Month) (Year) Person in charge Image: Construction Image: Construle construle construction Image: Constr						Sign
Name of Material Specification Quantity Description Material Image: Control of Service Image: Control dangerous materials the person in charge Image: Control dangerous materials the person in charge Image: Control dangerous materials the person in charge Ventilation a way and classify Image: Control of Service Image: Control dangerous materials the person in charge Image: Control dangerous materials the person in charge				ereen in enarge		Olgin
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using location Stock location (Day) (Month) (Year) to (Day) (Month) (Year) Person in charge Control dangerous materials the person in charge Ventilation a way and classify	Material					
using location Stock location (Day) (Month) (Year) to (Day) (Month) (Year) Person in charge Control dangerous materials the person in charge Ventilation a way and classify						
using location Stock location (Day) (Month) (Year) to (Day) (Month) (Year) Person in charge Control dangerous materials the person in charge Ventilation a way and classify						
using location Stock location (Day) (Month) (Year) to (Day) (Month) (Year) Person in charge Control dangerous materials the person in charge Ventilation a way and classify	Purpose and		l			I
Stock location (Day) (Month) (Year) to (Day) (Month) (Year) Person in charge Control dangerous materials the person in charge Ventilation a way and classify Ventilation a way						
Period of service (Day) (Month) (Year) to (Day) (Month) (Year) Person in charge Control dangerous materials the person in charge Ventilation a way and classify Ventilation a way and classify Ventilation a way and classify	-					
Person in charge Control dangerous materials the person in charge Ventilation a way and classify		(Dav)	(Month) (Yea	ı l ar) to (Da	y) (Month)	(Year)
Control dangerous materials the person in charge Ventilation a way and classify				, (/	× /
Ventilation a way and classify	Control dangerous materials					
	Ventilation a way and					

(Note)

1 This dangerous material is diesel oil, lamp oil, propane gas, acetylene gas.

2 This harmful matter is organic solvent, specified chemical substance (using coating and waterproof).

2.6 Case Example 2-6

1) Outline

While there are quite many checklists on safety patrol, checklists on safety instructions such as this Case Example 2-6 is rare and thus valuable. Case Example 2-6 is a very stringent checklist which consists of description and drawing of safety problems, delay from limited date, reasons of delay, instructions for improvement, and limit for improvement date etc.

2) Case Example

The Case Example 2-6 is on the following page.

Operating Instructions

				FR: SIR-01
Appendix 9	Project Name			
SAFETY INSTRUCTION REPORT	Date	Date	Month	Year
Place	Reported by			
Subcontractor's Name	Work kind			
Ditto incharged Person's Name	In charged Person's Name			
Safety Problem with Easy Drawing	Instruction for Improvement			
Time Limit for Improvement Date	Confirmation when Instructed	pe		
Actual Improved Date	Project Manager Safety Officer	Safety Assistant	In charged Engineer	Subcontractor in charged Person
Delay from Limited Date				
Reason of Delay				
	Confirmation when Completed	pleted		
	Project Manager Safety Officer	Safety Assistant	In charged Engineer	Subcontractor In charged Person
Penalty of Delay				

Case Example 2-6

2. Operating Instructions

3 Record of Meetings

3.1 Case Example 3-1

1) Outline

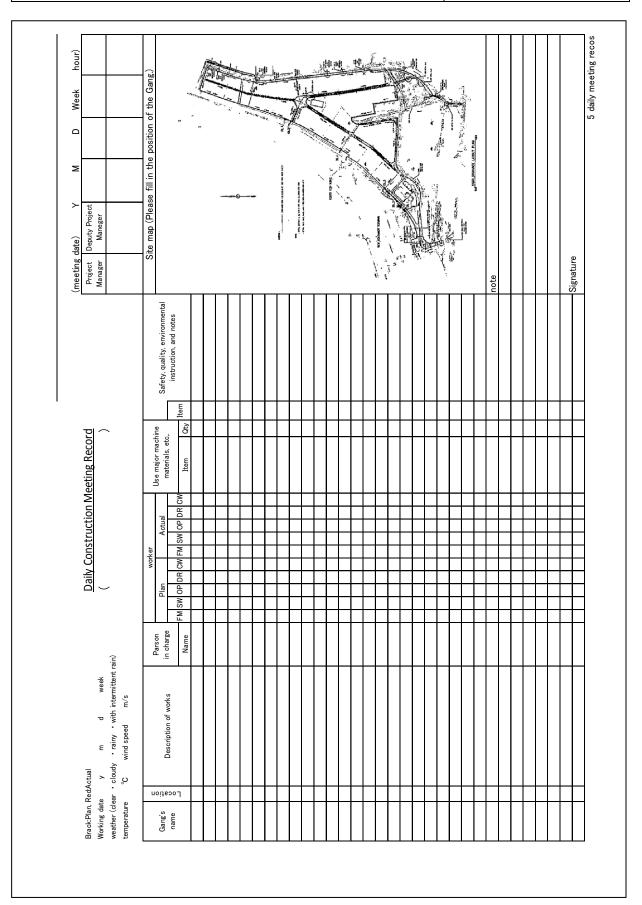
This document is similar to a daily report format. Each worker of working groups should fill in the plan and the actual result of the daily work so that a comparison between the plan and the actual work done is clearly shown. Additionally, a number of construction machinery and its types should also be added. Attached is a ground map of work site, on which workers mark the sections they have worked. Moreover, instructions on safety, quality and environment and other notes can be added to the last column. If construction workers change day to day, the comparison between the plan and the result may be unclear.

2) Case Example

The Case Example 3-1 is on the following page.

Record of Meeting

Case Example 3-1



4.1 Case Example 4-1

1) Outline

This case example is a simple and basic monthly report format, which includes total manpower, a number of safety meetings organized at site, a number of occupational safety awareness programs conducted at site, a number of fatal accidents, a number of other accidents and total working hours spent etc. There are two columns for each item, one for total number of the month, another for cumulative total number. It is also possible to add comments on the format. However, when considering safety management on an individual basis, there is a need to look at other documents such as patrol checklists.

2) Case Example

The Case Example 4-1 is on the following page.

Monthly Report

Case Example 4-1

MONTHLY SA	FETY REPORT						
Actual Work start Date: Project:		For the Mor					
Name of the sub-Contractor:	Status as on:						
Name of work:	Name of Designated Safety Officer:						
ITEM		MONTH	CUMULATIVE				
Total Strength (Staff + Workmen)							
No of Safety Meetings organized at site							
No of HSE awareness programs conducted at	site						
Whether Workmen health Policy taken							
Whether Workmen health							
Policy is valid							
Whether workmen registered under							
Number of Fatal accidents							
Number of Reportable Accidents (Non Fatal)							
Other accidents (Non Reportable)							
Total no of Accidents							
Total Man Hrs worked							
	·						
Insidence Pate							
Incidence Rate							
No of Fire Incidents							
No of First Aid Cases No of Near Miss Incidents							
Compensation Cases							
No of Violations of Health and Safety provisio	ns						
Remarks, if any							
Date:							
Safety Officer							
(Signature and Name)							

4.2 Case Example 4-2

1) Outline

This case example is a weekly and monthly report format regarding safety management, which consists of name of item, location, inspection result, date of action and signature (Case Example 4-2-1). It can be said that this format is more systematized than the earlier Case Example 4-2-1 as it allows the inspectors to check whether any action of countermeasures are taken on the same page. Case Example 4-2-2 is a weekly safety check sheet, thus there are less items to check. Moreover, Case Example 4-2-3 is a record of issuance of PPE in which types of PPE, name of the worker and his/her signature are to be filled. It is easy to grasp a general view.

2) Case Example

The Case Examples 4-2-1, 4-2-2 and 4-2-3 are on the following pages.

ekly	& Monthly I	Report		Case Example	e 4-2	-1
		<u>PROJE</u>	PROJECT <u>CT HEALTH & SAFE</u>			
FORM	-	Weekly/Mo	nthly Safety Inspection Re		eport No:	
Insp Date	ection Area					<u> </u>
Participants					SAFET	7 FIRST
SIT	E LOCATION CODES					DATE
ITEM	DESCRIPTION	LOCATION		/ OBSERVATION	ACTION BY DATE	DATE ACTIONEI & SIGN
<u>1.0</u> 1.1	Housekeeping		GENERAL SITE CONDITION Satisfactory Projecting Nail Debris & Scraps	DN		
1.2	Access & Egress	···· ·	N/A or Others, please specify Satisfactory Blocked Not Provided Corrective safety measures to be			
1.3	First-Aid Box		Confective safety measures to be Satisfactory Insufficient Medical Items No list of qualified First-Aid Perso No "First-Aid" Mark Not Provided .			
1.4	Fire Extinguisher		Satisfactory Maintenance Period Expired Improper Hanging Not Provided			
1.5	Safety Representative Weekly Report		N/A Others, please specify: Satisfactory Not Yet Completed N/A or others, please specify			
1.6	Notice of Empl. Of Safety Officer Safety Supervisor		Satisfactory Not Posted	 Satisfactory Not Posted Others please specify 		
1.7	Dangerous Goods		Satisfactory Not Labeled Improper Storage N/A or others, please specify			
2.0		· ····	LIFTING APPLIANCE & LIFTING	GEAR		
2.1	Mobile Crane		Satisfactory No Weekly Inspection Report No WWL clearly posted No Statutory Test & Thorough E: Use of outriggers Capacity & Lifting Radius Chart Use of Signalman Unauthorized riding of crane Riding Loads or Hook Operation Near Overhead Powee Remote Control Status/Battery Communication Device Lifting Capacity Warning (Bell) Travel Warning Device Broken/Fatigue Failure Wires NA or Other, please specify			
2.2	Lifting Gear		Satisfactory No SWL mark or stamp Broken Wires No Marking No Statutory Test Certificates No Statutory Examination Repor N/A or others, please specify			

Case Example 4-2-1 (2)

		<u>PROJE</u>	PROJECT NAME CCT HEALTH & SAFETY PLAN		
ITEM	DESCRIPTION	LOC	VIOLATION / OBSERVATION REMARKS	ACTION BY DATE	DATE ACTION D & SIGI
<u>4.0</u> 4.1	Winch or Lift		PLANT & EQUIPMENT Satisfactory Communication Device Defective/Malfunction No Statutory Test & Thorough Examination Certificates No Weekly inspection Report No SWL & Max. Person Notice N/A or Others, please specify		
4.2	Woodworking Machine		Satisfactory No Safety Guards N/A or Others, please specify		
4.3	Abrasive Wheel		□ Satisfactory □ No Safety Guards □ No Warning Notice □ N/A or Others, Please specify		
4.4	Arc Welding Machine		 Satisfactory No Earthling Out Going Cables w/ o Protection Live Parts Not Insulated Unsatisfactory. N/A or Others, please specify 		
4.5	Oxy-Acetylene Cutting		Invite Sections, proceedings, proceedin		
5.0	,		TEMPORARY ELECTRICAL INSTALLATION		
5.1	Distribution Board & Switch		 Satisfactory No ELCB Unlocked No Warning Sign Proper earthing N/A or Others, Please specify 		
5.2	Outgoing Wiring, Plug & Socket		 No Protection Against Physical Damage Satisfactory No insulation No Earthing No Protection Against Physical Damage 		
5.3	Portable Lighting		Satisfactory No earthling Damaged Bulb/Cover N/A or Others, please specify		
5.4	Lightning Conductors	· _ ·	Satisfactory Properly Grounded N/A or Others, please specify		
6.0		· · · ·	WORK AT HEIGHT		
6.1	Scaffolding		 Satisfactory No Monthly Inspection Report Inadequate Bracing Damaged Scaffolds No Base-Plate Damage Scaffolds N/A or others, please specify 		
6.2	Working Platform (Fixed/Mobile)		Satisfactory Damaged Scaffolds No Access Wheel Unlocked At Work No Guard raits/toe board Not Closely Boarded Not Closely Boarded No Monthly Inspection Report N/A or Others, please specify		

Case Example 4-2-1 ③

		<u>PROJEC</u>	PROJECT NAME <u>T HEALTH & SAFETY PLAN</u>		
ITEM	DESCRIPTION	LOC	VIOLATION / OBSERVATION REMARKS	ACTION BY DATE	DATE ACTION D & SIG
6.3	Ladder		Satisfactory Not Secured Its Top & Bottom Damaged Rungs Not Extended 1m At the Landing Unsatisfactory N/A or Other, please specify		
7.0			WORK PERMIT SYSTEM		
7.1	Gas Testing Report		 Satisfactory No yet completed/updated So far not introduced N/A or Others, please specify 		
7.2	Communication System/Device		Satisfactory Not Provided Defective/Malfunction N/A or Others, please specify		
8.0 8.1	General Safety		PERSONAL PROTECTIVE EQUIPMENT & Employee Practices Satisfactory		
	Gear		Vo Safety Helmet Safety Helmet No Safety Shoes No Eye Protector No Ear Protector No Safety Belt No Dust Mask/Respirator Unsatisfactory		
8.2	Employee Practice		Reporting Injuries Reporting Damage Housekeeping Personal Protective Equipment Personal Protective Devices Drunkenness Horseplay Unauthorized Operation Unsafe Fueling Equipment Unsafe Fueling Equipment Unsafe Erection of Scaffold Unsafe Lifting Using Broken tools Using Unsafe Welding Cable Using Unsafe Power Tools Under Suspended load Under Suspended load Unsafe Riding of Equipment Open fires Failure to bend/remove nails		
9.0			DANGEROUS GOODS HANDLING		L
9.1	Explosives		 Satisfactory Wooden storage boxes Detonators Explosives Stock book maintained, order and delivery records Warning labels, "Danger- Detonators" in Eng. + Singhalese Blasting permit Transporting of Explosives. Fitness of the vehicle Authorized shot firer Register of blasting operations N/A or others, please specify 		
9.2	Compressed gas		Satisfactory Designated storage area and proper use of storage Security of storage area Labeling Warning signs Not Securing gas bottles (up-right) N/a OR others, please specify		

Case Example 4-2-1 ④

		<u>PROJE</u>	PROJECT NAME <u>CT HEALTH & SAFETY PLAN</u>		
ITEM	DESCRIPTION	LOC	VIOLATION / OBSERVATION REMARKS	ACTION BY DATE	DATE ACTION D & SIG
9.3	Corrosive substances		 Satisfactory Warning markings, handling requirements Satisfactory packing Absorbent near-by Ventilation 		
9.4	Others		☐ Poisonous substances □ Inflammables		
10.0			AIR POLLUTION	<u> </u>	
10.1	Generators	1. 2. 3. 4.	Satisfactory Black smoke Leaking Oll Others, Please specify		
10.2	Earth moving equipment	1. 2. 3 4	Satisfactory Black smoke Leaking oil N/A or others, please specify		
10.3	Vehicles, locomotives, other fuel burning engines	4 1. 2. 3. 4.	N/A or others, please specify Satisfactory Black smoke Leaking oil N/A or others, please specify		
0.4	Dust	1. 2. 3. 4.	Satisfactory Site dusty Inadequate spraying N/A or others, please specify		
1.0			WATER POLLUTION		L
1.1	General house- cleaning		Oil/diesel stains on ground Garbage scattered all over the site. N/A or others, please specify		
11.2	Maintenance of de-silting tank	1. 2. 3.	Odors Oil sheen/Visible grease Turbidity Foam Colour Tank full of silt N/A or others, please specify		
11.3	Neutralization Tank	1. 2.	Odors Odors Odors Oli sheen/Visible grease Turbidity Foam Colour Tank full of silt No neutralization record No monitoring of waste water pH Containment of acid storage area N/A or others, please specify		
1.4	Floor drains		Signs of pouring oil/diesel into drains Contaminated with chemicals (e.g. oil, diesel etc.,) Blocked by debris/garbage Storage of chemicals nearby N/A or others, please specify		
12			EARTH POLLUTION	ь. 	·
12.1	Using earthmoving equipment and chemicals		 Oils spills on the ground Chemical spills Dumping waste concrete Used Batteries Plastics bags etc., Dumping tires Glasses N/A or others specify 		
13		Н	AZARDOUS MATERIAL HANDLING AND STORAGE	· · · ·	<u>. </u>
13.1	Waste/garbage bins		 Satisfactory Pollutants (e.g. waste chemical containers, rags, and batteries etc., dumped in bins. Recyclables (e.g. metal) dumped in garbage bins N/A or others, please specify 		

Case Example 4-2-1 (5)

				I	
ITEM	DESCRIPTION	LOC	VIOLATION / OBSERVATION REMARKS	ACTION BY DATE	DATE ACTIONE D & SIGN
13.2	Chemical dispensing		 Drums/containers not effectively closed No drip pans/trays Extensive spillage on floor/ground Waste chemical on the external surface of the containers No grounding of drums No Warning signs No overhead covering/protection from rainwater flooding Spilled chemicals in drip tray not pumped out No Emergency equipment Funnels not used. N/A or others, please specify Interaction with water Strong supporter of combustion Readily combustible Liable to spontaneous combustion Others 		
13.3	Waste types		 Drums/containers not effectively closed. Not stored in designated drums No drip pans/trays Extensive spillage on floor/ground Waste chemicals on the external surface of the containers No labels on drums No, or ineffective, bonding No overthead covering No ventilation No emergency equipment Funnels not used Maximum volume not posted or maximum volume exceeded N/A or others, please specify. 		
13.4	Cleaning solvents	Metal works Hop	 No designated storage drums Drums/containers not effectively closed. No drip pans/trays Extensive oil/diesel spillage on ground Soaking tray placed in heavy traffic area No emergency equipment Funnels not used N/A or others, please specify 		
13.5	Chemical storage		 No, or ineffective, bonding Drums/containers not effectively closed. No drip pans/ trays Extensive oil/diesel spillage on ground Waste chemical on the external surface of the containers No warning signs No overhead covering No ventilated No emergency equipment No maximum storage quantity posted, or quantity exceeded No inventory N/A or others, please specify 		
13.6	Above ground diesel tanks		 Extensive diesel spillage on ground No bending /no drip pans when pumping diesel No drip buckets for dispensing hoses/pump Integrity of tank not satisfactory Leaking pipes/ connectors/ pumps Roof not provided Located too close to storm drain inlets Banding discharge valve not closed N/A or others, please specify. 		
13.7	Oil change		 No drip pans / spills / stains / housekeeping Waste oil not poured into designated waste oil drums Dirty oil filters dumped into garbage N/A or others, please specify 		

Case Example 4-2-1 6

ITEM	DESCRIPTION	LOC	VIOLATION / OBSERVATION	ACTION BY DATE	DATE
14			REMARKS WASTE MANAGEMENT	BIDALE	D & SIG
14.1	Waste types		Chemical Crosive Corrosive Radioactive Construction/ work N/A or others, please specify		
14.2	Storage Containers		Container Integrity not satisfactory No labeling Drums/ containers not effectively closed Waste chemical on the external surface of the containers Handling Instructions not posted at dispenser. N/A or others, please specify		
14.3	Housekeeping		Satisfactory Miscellaneous items are stored here Improper stacking of drums Isle too narrow or not cleared of obstacles N/A or other, please specify		
14.4	Records		 No inventory records No shipment manifests N/A or others, please specify 		
14.5	Storage containers		 Satisfactory Container integrity not satisfactory No labeling - Drums/containers not effectively closed Waste chemical on the external surface of the containers Handling instructions not posted at dispenser 		
14.6	House keeping		Satisfactory Miscellaneous items are stored here Improper stacking of drums Isle too narrow or not cleared of obstacles inadequate bounding volume Inadequate ventilation Directly connected to drains Inadequate space for handling waste containers Not provided with a roof Not secured by lock(s) No warming signs/maximum quantity or volume N/A or others, please specify		
14.7	Storage area		NA of others, please specify Satisfactory Non-Government approved waste remover Non-Government approved treatment facility No shipment manifests N/A or others, please specify		
SUM	ARY NOTES			Action to b	e taker
14.8	Construction Ac	tivities			

ekly & Monthly Report			Cas	e Ex	amp	le 4	-2-	·2
	PROJEC	۲ŗ.	NAM	Ē				
PROJECT HEA	<u>ALTH & SAF</u>	<u>ETY</u>	PLA	<u>N</u>				
FORM \$13					R	eport N	0:	
						•		
WEEKLY SAFETY CHECK SHEET								
Date: Location:	(Office	er In cl	harge:				
Sub Contractor:			From				То	-
Officer In charge								
Safety Boards (Working in the Public Ro	ads/Places)	Sun	Мо	Tue	We	Thu	Fri	Sa
1 Sign Boards required according to the w	ork Site							-
2 Flag men with Traffic Jackets								[
3 Safety Cones (sufficient number for the	site)			+				
4 Barricade Tape						<u>├──</u>		
	I							
Working Under the Bridges & Elevated St	ages/ Safety Pr	ecaut	ions					
1 Safety Nets								
2 Standing Rebar Edge Protection								
3 Wooden. Gangway								
4 Guardrails								
5 Foot Bridges								
6 Walk Ways								
7 Safety Belts							_	
8 Safety Helmets /Chin Guard Tightened								
9 Safety Shoes/ Boots								
10Safety of Ladders11Tools & Equipments are in Good Condition	tion							
11 Tools & Equipments are in Good Condi				1				
Excavation Sites/ Collapsible Areas				,				
1 Mechanical Condition of Excavator/JCE								L
2 Underground Obstructions (Water pipe, Cables)								
3 Electricity Cables & Telecom Cables ab	ove the site							
4 Condition of Soil is Collapsible	<u> </u>							
5 Timber pile sheets are available for Shor								<u> </u>
6 Steel Sheet Piles are available for Shorin	1g							<u> </u>
7 Jacks & Supports								<u> </u>
8 No third party shall enter in to the site9 First aid officer is in the site								<u> </u>
9 First and officer is in the site				· .				
Safety Precaution for Night Works		,						
1 Generators								
2 Lights 1000W / 500W								
3 Blinking Lights/Warning Lights								
4 Safety Boards 5 Flog Man / Signal Man to Control the T								
5 Flag Men / Signal Men to Control the T	rame							
6 Permission from Relevant Authority7 Inform to Environment Before Comment	cing Worls	-						
8 Inform to Police	ung work							

Case Example 4-2-2 (2)

PROJECT NAME

PROJECT HEALTH & SAFETY PLAN

1	Check Welding Equipment is in Good Working					
	Order			_		
2	Fire Extinguishers are Available	1				
3	Check Flammable Liquids or Aerosol Cans are					
	around					
4	"NO SMOKING" Sign Boards					
5	Do not let anybody to watch the Arc of an Arc					
	Welder in Operation					
6	Check Acetylene Regulator Pressures it should never					
	be allowed To exceed 103kp					
Ch	eck Proper Protective Clothing and Equipments					
1	Leather Gloves					
2	Long Sleeve Shirts or Hand Protector					
3	Eye and Face Protector Shield					
4	Goggles					
5	Helmet or Hard Hat					
6	Safety boot or shoe					
Dis	charge of Excess Soil					
1	Is the Land Approved by the Relevant Authority?				-	
2	House Keeping					
3	Fire Extinguisher					
4	Traffic Control					1
5	First Aid					
6	Blasting Communication			_		

 6
 Blasting Communication

 7
 Explosive Handling

 8
 Unsafe Machineries & Vehicles

 9
 Working under the influence of Alcohol

 10
 Other Unsafe Activities (Specify)

Special Comments:

•••••	••••••	••••••			•••••
		••••••••••••••••••••••••		•••••	•••••
•••••	••••••	••••••		••••••••••••••••••••••••	••••••
••••••	•••••	•••••••••••••••••••	••••••	••••••	••••••
••••••	•••••	••••••••••	• • • • • • • • • • • • • • • • • • • •	••••••••••	••••••
• • • • • • • • •					

Safety Officer	Sub Contractor's Officer In charge:
	Name:
	Designation:
•••••	Signature:
	Sub
	Contractor

Project Manager

.....

We	ekly & Monthly	Report				Case	e Examp	e 4-2-3
		PRO	JECT HEA		JECT NA SAFETY P			
נ ז	FORM \$10 RECORDS OF ISSI Main Contractor: Record by :				ECTIVE E(QUIPMI		ort No:
	NAME	EMPL	HARD HAT	SHOES BOOTS	SAFETY.	RAIN COAT	SAFETY GOGGLES	SIGNATURE
	an der de Billeningen von der sollen in der sie	5. 378 41 (7 . 688 1	<u>n se a na seren a se an</u>	L DOOLD	CLOYLS	L'COATS	, OOOOLLS	
			-					·
	· · · · ·							
			-					·
								· · · · · · · · · · · · · · · · · · ·
		_						
				·			····	· · · · · · · · · · · · · · · · · · ·
'		I	·	1	1			ı. <u>1</u>

4.3 Case Example 4-3

1) Outline

This is a monthly safety report. It is a simple meeting record format for monthly meetings organized by Safety Management Committee. In the format, major events, casualty reports and safety activities (meetings and safety trainings) are to be reported.

2) Case Example

The Case Example 4-3 is on the following page.

Γ

Mo	nthly Report			Cas	e Exam	ole 4-3	
				I			
			Date of Prep				
			Prepared by				
			Approved by	,			
		MONTHLY SAF	ETY REPOR	RT			
1.	Major Event						
	Casualty Report		T		Ι		
No.	Description		-	ntractor		Total	
1	Number of person This Month	Cumulative	This Month	Cumulative	This Month	Cumulative	
2	Man hours worked H						
3	No lost time b accident						
4	Loss time accident <3days and less						
5	Loss time accident >4days and more						
6	Fatal accident e						
7	Man days lost L						
8	Frequency rate F						
<u> </u>	Severity rate G						
3. 3.1	Note: F=((d+e)/H)×1,000,00 Safety Activity Safety Meeting	00 G=(L/H)					
			This Mon			. .	
No.	Description	Date	No. of attendees	Hours of Me	eeting	Remarks	
1	General Safety Meeting for Workers						
2	Monthly Progress Meeting						
3	Weekly Meeting						
3.2	Safety Training						
No.	Description		This Mon	th			
1	Safety orientation to new worker	Date	No. of attendees	Hours of Me	eeting	Remarks	
2	Tool box meeting						
3	Specific safety training	+ +					
	a)Traffic Accident b)Discuss accident happen from	+					
	other project						
	c)Safety Motivation for workers prior to safety promotion						
	d)Others						

5 Site Inspection Check Sheet

5.1 Case Example 5-1

1) Outline

Case Example 5-1-1 is a daily checklist for cranes. The inspection items are for engine, hydraulic system, brake system, driving system, electronic system, and safety devices. Case Example 5-1-2 is scaffold inspection list, which consists of location & description of scaffold, dates & result of inspection and a short checklist for inspection (including baseplates, ground condition, joint condition, bracing, platform, ladder, and guard rail etc.).

2) Case Example

The Case Examples 5-1-1 and 5-1-2 are on the following pages.

Inspection by Patrol

Г

Case Example 5-1-1

	KS SECTION/LOCATION P/PKG/							DATE	:		
-	IPMENT/PLANT MACHINERY IBER	CHECK NAME	ED	BY	DF	ESIGI	NATI	ON		SIGN	ATURE
No.	ITEM			CHI	ECK	DON	VE &	DATE	C		COMMENTS
1	ENGINE										
	WATER LEVEL										
	OIL LEVEL & CONDITION										
2	HYDRAULIC SYSTEM										
	HYDRAULIC OIL & CONDITION	N									
	HYDRAULIC PUMP, MOTO CYLINDERS	RS &									
	CONTROL VALVE, ROTATING J	OINT									
3	BRAKING SYSTEM										
	SWING BRAKE CONDITION										
	BOOM HOIST BRAKE CONDITI	ON									
	BRKE FLUID AND CONDITION										
1	TRAVELLING SYSTEM										
	TRACK AND CRAWLER ROLLE	RS									
5	ELECTRICAL SYSTEM										
	FLUID LEVEL IN BATTERY										
	ELECTRICAL DISPLAY PANEL										
3	SAFETY DEVICES										
	BOOM OVER HOIST										
	OVERLOAD ALARM IF ANY										
KEY:	X: NOT ACCEPTABLE – RI : ACCEPTABLE	EPAIRS TO	O BE	DON	E, C	RAN	E NO	ото т	O E	BE US	SED
	N/A NOT APPLICABLE TO T		IF								

Inspection by Patrol

SHORT CHECK LIST – THIS CHECKLIST MUST BE ATTACHED TO THE SCAFFOLDING BEING INSPECTED AND CERTIFIED AS SAFE OR NOT SAFE TO SIGNATURE OF PEERSON WHO CARRIED OUR INSPECTION ACCEPTABLE(Y/N) OTHER MEMBERS ADDITIONALNOTES DATE RESULT OF INSPECTION STATE WHETHER IN GOOD ORDER OR NOT SCAFFOLD INSPECTION LIST – PF52 ACCEPTABLE(Y/N) ACCEPTABLE(Y/N) DATE NAME: COUPLINGS GUARD RAIL TOE BOARD PLATFORM PROVIDED LADDER ACCESS DATE OF INSPECTION PROCEDURE NO.16 – SAFETY MANAGEMENT WORK COMMENCEMENT – DATE ACCEPTABLE(Y/N) ACCEPTABLE(Y/N) LOCATION AND DESCRIPTION OF WORKS SECTION/LOCATION: WEIP/PKG / REF: SIGNATURE: PROJECT NAME CONNECTION BASEPLATES CONDITION STANDARS SCAFFOLD GROUND BRACING 2. £ USE. SPACING TNIOL i.

Case

Case Example 5-1-2

5.2 Case Example 5-2

1) Outline

In order to thoroughly manage safety at construction site overseas, a safety inspection checklist which is a basic format of safety management system based on the head office's basic principles is prepared by the head office of contractors. Workers at construction sites are requested to select and use applicable items depending on the characteristics of work and conditions. Case Example 5-2 is a checklist prepared for common type of construction which includes items of inspection such as PPE, excavation, scaffold timbering, cleaning, dismantling, traffic safety, crane, and electricity etc. In addition, there are other specific formats for construction which deals with concrete casting, construction which involves electrical work or welding.

2) Case Example

The Case Example 5-2 is on the following page.

Inspection by Patrol

Case Example 5-2 1

	OHS	OCE	CD OPERATIONAL CONTROL PROCEDURE	Secti	on 2			
	Sa		fety Inspection	5 Feb 09	Rev 2			
				Page	1 of 9			
SAFE	inspec	TION						
1	PURPOS	ЭE						
	To iden	ntify haza	ardous situations and to imple	ment remedial	action befor			
	things c	an deve	elop to a point where injury or o	ther losses can c	occur.			
2	SCOPE							
-		ahla ta a	Il project operations identified a	as hazards				
	Applica		n project operations identified a	as nazarus.				
3	REFEREN	NCE						
	SP-01_E	HS	Aspects and Hazards analysis	S				
	OCP-08	3_OHS	Maintenance of Machinery					
4	RECORI	DS						
	Relevant safety inspection records such as;							
	Scaffold inspection checklist, equipment inspection checklist, General safe							
	work ch	necklist, e	etc.					
5	PROCE	JURE						
5.1	Respon	sibility						
5.1.1	Operat	ors are to	o carry out inspection of equipr	ments or plants b	efore work.			
5.1.2	M&E er	ngineer is	s to carry out periodical inspec	tions for M&E eq	uipments and			
	plants.							
5.1.3	Site Sup	pervisor o	or foreman are to carry out site	e work inspectio	ns and safet			
	•	periodic	5					
5.1.4	-		nd his assistants are to carry o	out site work ins	pections and			
	-		eriodically.					
5.1.5		-	ager or his representative and	Construction Ma	inagers are to			
	Cally O	ursalety	inspections monthly.					
	Genera	1						
5.2		••						

Inspection by Patrol

Case Example 5-2 2

	OHS	OCECD OPERATIONAL CONTROL PROCEDURE	Sectio	on 2	
			5 Feb 09	Rev 2	
		Safety Inspection	Page 2	2 of 9	
5.2.2 5.2.3	the wor Machine All inspe dictated M	an essential operating practice on every kplace must take place.(refer to OCP ery) ctions, regardless of type, shall be taken by need. iddle and senior management shall in ons by taking part in nominated inspection	-08_OHS Mair place at inter nvolve themse	ntenance o rvals, as elves in the	of ese
5.3	Safety In	spections			
5.3.1	monthly with end	basis prepare and submit the mandate orsement of Project Manager.	5 5 1	ort to the clie	
5.3.2 5.3.3	conduct personne		pective subc	contractors/s	
5.3.4	frequenc	cy, checklists, person in charge, etc. ogram shall comprise but not limited to the			·
	• G	eneral safe work			
	• Sc	caffolding			
	• Te	emporary electrical installation			
	• E>	cavation			
	• C	oncreting and formwork			
	• H	ot work			
	• H	ousekeeping, etc.			
5.3.5	Append	ix-1 shows the typical checklist for genera	safe work insp	pections.	
5.3.6		ty Officer, Site Supervisor or designated on records.	personnel shal	ll keep the	
5.4	Remedia	Il Action			
5.4.1		ctions conducted are to be properly doc ective actions required, timeframe and			
5.4.2		y-up is necessary to ensure that remedi	al works are	completed	on

5.4.2 Follow-up is necessary to ensure that remedial works are completed on schedule as committed by the parties concerned.

Inspection by Patrol	Case Example 5-2 ③
Inspection by Patrol	Case Example 5-2 3

OHS	OCECD OPERATIONAL CONTROL PROCEDURE	Section 2	
	5 Feb 09	Rev 2	
Safety Inspection		Page 3 of 9	
6 ATTAC	HMENT		

Inspection	by Pat	rol			Case Examp	ole 5-2 (
	ſ			•		
	OHS	OCECD OPERATIONAL CO PROCEDURE	NTROL		Section 2	
		Safety Inspection		5 Feb	09 Rev 2 Page 4 of 9	
		a 1 Sample for General Inspection Checklist				
		OHS CHECKLIST FOR PROJECT SITE				
1	NO	DESCRIPTION	Report o (tick if ob or NA i applic	served	Location & other remarks	
	l Pe	ersonal Protective Equipment		,		
	la. Us	se of Safety helmets.				
	lb. Pr	ovision and use of eye protection.				
1	Ic. Us	se of safety belt.				
1	Id. Pr	ovision of ear protection.				
2		cavation				
2		ccavation depth > 5m to provide arning sign.				
2		nber plank used for piling at least mm thick.				
2		cavation depth > 1.2m provide access				
2		cavation depth > 4m to provide PE sign for shoring.				
2	me	cavation depth > 1.5m with echanical digger used, to provide PE sign for shoring.				
2		sitioning of machinery in dangerous anner.				
		orage of material 610mm away from e edge of trenches.				
2	ac	ilure to protect open cut slope in cordance with approved method atement or design.				
3		caffolding				
3	Ba. No	o wire ties.				
3	3b. Pr	oper maintenance of scaffold.				
3	Bc. Mi	nimum width of working platform is				

Case Example 5-2 (5)

	OCECD OPERATIONA OHS PROCEDU			Section 2
	Safah Inspasian		5 Feb	09 Rev 2
	Safety Inspection		Р	age 5 of 9
NO	DESCRIPTION	(tick if o or NA	of visit bserved if not cable)	Location & other remarks
	635mm.			
3d.	Sign show maximum load & maxim no. of workers to be placed.	num		
3e.	Platform projection shall not be less 50mm or greater than 4 times of thickness of plank used.	s than		
3f.	Plank used shall be flushed and secured.			
3g.	Removal of construction debris from platform.	m		
3h.	Provision of access ladder to platfo	orm.		
3i.	Provision of guard rail for working platform exceeds 3m in height.			
3j.	Provision of bracing from top to bas scaffolding.	se of		
3k.	Erection on solid foundation or well consolidated soil.	1		
4	Housekeeping			
4a.	Cause tripping and cutting hazards	5.		
4b.	Storage of material cause obstructi passage way or place of work.	ion to		
4c.	Material to stored or stacked in safe manner.	e		
4d.	Material storage shall not cause da to persons below or close to edge platform.			
4e.	Debris shall not accumulated and constitute hazard.			
4f.	Provision of hoarding.			
4g.	Removal of oil, greese, water etc., which may causes slipping hazard.			
5	Demolition			

Case Example 5-2 6

	OHS	OCECD OPERATIONAL COI PROCEDURE	VIRUL		Sectio	n 2
	-			5 Feb		Rev 2
		Safety Inspection		F	age 6	of 9
					agee	
NO		DESCRIPTION	Report ((tick if ok or NA applic	oserved if not	-	cation & r remarks
5a.	Proper	method of removal of debris.				
5b.	of exter than 12	on of catch platform for demolition ior wall or roof from a point more m height if persons below are d to falling objects.				
5c.	unauthe	n of barricade to prevent prised person(s) entering the ion project site with warning sign				
5d.	times h	ng weight method to provide 1.5 eight of structure demolition zone rricade.				
5e.		ell bucket used to maintain 8m ion zone with barricade.				
6	Traffic	Control & Road Safety				
6a.		to provide alternative footpath ectional sign for pedestrians.				
6b.		of any road or lanes leading to am of 100m or more.				
6c.	tempor	to display any or adequate ary sign, cone, rotating lamp or dication for temporary road-lanes				
6d.		to maintain barricades, blinkers, lamps in good working condition.				
6e.		to display adequate warning sign egic location.				
6f.	suitable	to provide barrication with warning sign and light when arry out near any roads / ys.				
6g.	debris,	of equipment / machineries, material or thing in such a as to cause obstruction to	<u> </u>			

Case Example 5-2 $\overline{\mathcal{T}}$

	OHS	OCECD OPERATIONAL COI PROCEDURE	NIROL		Section 2	
				5 Feb		v 2
		Safety Inspection			age 7 of 9	
				1	age / or /	
NO		DESCRIPTION	Report (tick if ob or NA applic	oserved if not	Location other rem	
		s using the public street and rian footway.				
6h.		to rectify road depression or as immediately.				
6i.	truck m	to provide collision attenuator / nounted attenuator (TMA) for on road with speed limit 70kph ove.				
7	Cranes	S				
7a.	Sound	underlying material for footing.				
7b.	Provide	e capacity chart.				
7c.	corresp	or for safe working load bond to radius of jib and warning hen radius is unsafe.				
7d.	No trav	vel of crane with suspended load.				
7e.		on of lifting the Site Supervisor gnal man.				
8	Electri	cal				
8a.		on of proper warning sign in 4 languages where electrical circuit				
8b.	Protect	tive measures taken to prevent es.				
8c.		supported on proper insulator and ped over rails or brackets.				
8d.		ng shall be left on ground or floor all be protected.				
9	Safe N	leans of Access				
9a.	Safe m working	eans of access to be provide to glevels above or below ground.				
9b.	Provisi	on of hand hold to ladder.				
9c.	Ladder	shall not stand on loose bricks or			L	

-

Case Example 5-2 (8)

	OHS	PROCEDURE				tion 2
		Safety Inspection	5 Feb (
				P	age	8 of 9
NO		DESCRIPTION	Report of (tick if ok or NA i applic	oserved if not		Location & her remarks
	loose p	acking.				
9d.	Ladder	shall be securely fixed.				
9e.	No und	ue swaying of ladder.				
10	Piling				-	
10a.		ammer shall be lowered to if is not in use.				
10b.	Provisio	on of permanent ladders.				
10c.	Warnin test pile	g sign provided at 50m away from ∌ area.				
10d.	Sound driver.	footing for advancing of pile				
11	Falling	Hazard				
11a.	Open s	ide or opening shall be guarded red.				
12	Preven	tion of Fire				
12a.	Provisio	on of fire extinguishers.				
13	First-A	id			_	
13a.	Provide	and maintain First-Aid boxes.				
13b.		ment of first aider for factory an 25 persons.				
14	Safe P	ace of Employment				
14a.	passag	es of work, floors, steps, stairs, es, gangways, must be properly ned and free from obstruction.				
14b.	provide more th	foothold & handhold shall be d if a person is liable to fall from an 3m; provision of safety belt, , net and secured anchorage.				
15		Requirements				
15a.		ness – Work place to be kept nd free from effluents.				

ction	by Patrol		Case	Example 5-2	9
	OCECD OPERATIONAL COM PROCEDURE	NTROL	S	Section 2	
	Safety Inspection		5 Feb C Po	09 Rev 2 age 9 of 9	
NO	DESCRIPTION	Report (tick if o or NA applic	bserved if not	Location & other remarks	
15b.	Ventilation-Provision of ventilation for work place which generate harmful gases, vapours or other impurities.				
15c.	Lighting - Provision and maintain sufficient & suitable lighting.				
15d.	Drainage - Provision and proper maintenance of drainage system.				
15e.	Sanitary – Sufficient and properly maintained toilet facilities.				
16	Others				
16a.	Non-compliance with approved procedures for beam launching work.				
16b.	Failure to control unsafe acts of workers, like pillioning on dumpers / excavators / cranes, improper use of connectors / plugs for electrical equipments, etc.				
16c.	Failure to comply with any written law and byelaws, rules and regulations of any government ministry, statutory boards or other authorities which are applicable or relevant to the execution of the works.				
INSPE	CTED AND WITNESSED BY:				
Inspe Nam	ection done by: e:	Re	bcontrac presenta me:	tor's tive (if applicable	e)
Sign	ature, Date and Time:	Sig	jnature, Da	ate & Time:	

5. Site Inspection Check Sheet

6 Occupational Safety & Health Management System

6.1 Case Example 6-1

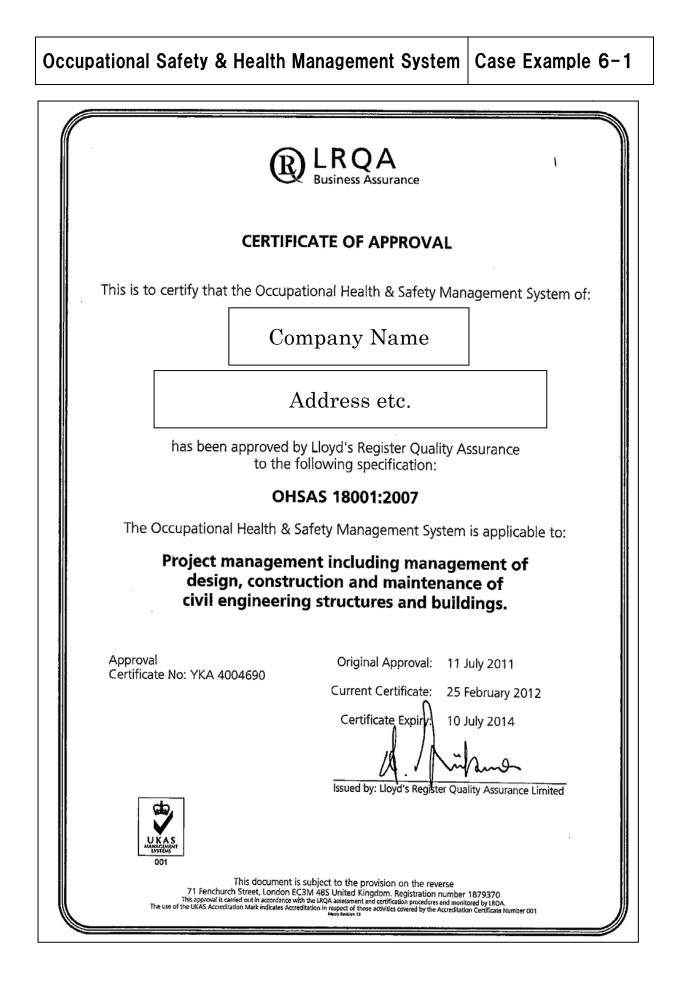
(see also Case Example 1-4)

1) Outline

This is a copy of a certificate of approval given to a corporation whose Occupational Health & Safety Management System has been certified as International Standard OHSAS 18001. In a similar case, a head office, which has obtained ISO 9000, conducts quality and safety management on construction sites.

2) Case Example

The Case Example 6-1 is on the following page.



6.2 Case Example 6-2

(see also Case Example 5-2)

1) Outline

This is a case where a head office, which has not obtained the international standard, establishes its own standard and conducts PDCA (Plan-Do-Check-Action) cycle based on their own policy.

2) Case Example

The Case Example 6-2 is on the following page.

Occupational Safety & Health Management System Case Example 6-2 ①

	OHS	OCE	ECD OPERATIONAL CONTROL PROCEDURE	Secti	on 2
				5 Feb 09	Rev 2
		Sai	fety Inspection	Page	1 of 9
AFE1	TY INSPEC	TION			
	PURPOS	Æ			
	To ider	ntify haza	ardous situations and to imple	ment remedial	action befo
	things o	an deve	elop to a point where injury or o	other losses can c	OCCUI.
	SCOPE				
	Applica	able to a	Il project operations identified a	as hazards.	
5	REFEREI	NCE			
	SP-01_E	HS	Aspects and Hazards analysis	S	
	OCP-08	3_OHS	Maintenance of Machinery		
Ļ	RECOR	DS			
	Releva	nt safety	inspection records such as;		
	Scaffol	d inspec	tion checklist, equipment inspe	ection checklist,	General sa
	work cl	necklist, e	etc.		
5	PROCE	DURE			
ō.1	Respon	sibility			
5.1.1	Operat	ors are to	o carry out inspection of equipr	ments or plants b	efore work.
5.1.2	M&E er	ngineer is	s to carry out periodical inspec	tions for M&E eq	uipments an
	plants.				
5.1.3			or foreman are to carry out site	e work inspectio	ns and safe
5.1.4	-	periodic	and his assistants are to carry (out site work ins	nections ar
	-		eriodically.		
i.1.5	-		nager or his representative and	Construction Ma	nagers are
	carry o	ut safety	inspections monthly.		
.2	Genera	h			

Occupational Safety & Health Management System Case Example 6-2 2

			·	
		OCECD OPERATIONAL CONTROL		_
	OHS	PROCEDURE	Sectio	
		Safety Inspection	5 Feb 09	Rev 2
			Page 2	of 9
5.2.2	the worl Machine All inspec dictated	ctions, regardless of type, shall be taken by need.	-08_OHS Main	vals, as
5.2.3		iddle and senior management shall in ons by taking part in nominated inspectior		
5.3	Safety In	spections		
5.3.1 5.3.2	monthly with end The	basis prepare and submit the mandate orsement of Project Manager. Safety Officer, Site Supervisor, de	esignated pe	rt to the clien ersonnel shal
.3.3	personne Furthe frequenc	various safety inspections with res el via various inspections checklists. er inspection program shall be developed cy, checklists, person in charge, etc. gram shall comprise but not limited to the	to specify the	
	• G	eneral safe work		
	• Sc	caffolding		
	• Te	emporary electrical installation		
	• Ex	cavation		
	• C	oncreting and formwork		
	• Ho	ot work		
	• Ho	ousekeeping, etc.		
.3.5	Appendi	x-1 shows the typical checklist for genera	safe work insp	pections.
5.3.6		ty Officer, Site Supervisor or designated on records.	personnel shall	l keep the
.4	Remedia	I Action		
5.4.1		ctions conducted are to be properly doc ective actions required, timeframe and		
5.4.2	Follow	r-up is necessary to ensure that remedi e as committed by the parties concerned		completed or

)ccu	pational	Safety & Health Management Sys	stem	Case	Example 6-	2 3
	OHS	OCECD OPERATIONAL CONTROL PROCEDURE		Sect	ion 2	
			5 F	eb 09	Rev 2	
		Safety Inspection		Page	3 of 9	
6	ATTACI	HMENT				
		dix 1 Sample for ork inspection checklist				

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Occupational Safety & Health Management System Case Example 6-2 ④

	OCECD OPERATION OHS PROCED		5 Feb	Section 2
	Safety Inspection			09 Rev 2 age 4 of 9
	pendix 1 Sample for General fe Work Inspection Checklist OHS			
	CHECKLIST FOR PROJECT SITE			
NO	DESCRIPTION	Report (tick if ol or NA applic	oserved if not	Location & other remarks
1	Personal Protective Equipment			
1a.	Use of Safety helmets.			
1b.	Provision and use of eye protection	on.		
1c.	Use of safety belt.			
1d.	Provision of ear protection.			
2	Excavation			
2a.	Excavation depth > 5m to provide warning sign.	•		
2b.	Timber plank used for piling at lea 50mm thick.	ast		
2c.	Excavation depth > 1.2m provide ladder.	access		
2d.	Excavation depth > 4m to provide design for shoring.	PE		
2e.	Excavation depth > 1.5m with mechanical digger used, to provid design for shoring.	le PE		
2f.	Positioning of machinery in dange manner.	Prous		
2g.	Storage of material 610mm away the edge of trenches.	from		
2h.	Failure to protect open cut slope i accordance with approved metho statement or design.	n d		
3	Scaffolding			
3a.	No wire ties.			
3b.	Proper maintenance of scaffold.			
3c.	Minimum width of working platfor			

Occupational Safety & Health Management System

Case Example 6-2 (5)

	OHS	OCECD OPERATIONAL CON PROCEDURE	NIKUL		Sect	ion 2
				5 Feb	09	Rev 2
		Safety Inspection		P	age	5 of 9
NO		DESCRIPTION	Report (tick if ol or NA applic	oserved if not		ocation & her remarks
	635mm					
3d.		ow maximum load & maximum vorkers to be placed.				
3e.	50mm (n projection shall not be less than or greater than 4 times of ss of plank used.				
3f.	Plank u secured	sed shall be flushed and J.				
3g.	Remov	al of construction debris from				
3h.		on of access ladder to platform.				
3i.		on of guard rail for working n exceeds 3m in height.				
3j.	Provision	on of bracing from top to base of ling.				
3k.		n on solid foundation or well dated soil.				
4	House	eeping				
4a.	Cause	tripping and cutting hazards.				
4b.		e of material cause obstruction to e way or place of work.				
4c.	Materia manner	l to stored or stacked in safe				
4d.		l storage shall not cause danger ons below or close to edge of n.				
4e.		shall not accumulated and ite hazard.				
4f.	Provisio	on of hoarding.				
4g.		al of oil, greese, water etc., in nay causes slipping hazard.				
5	Demoli	tion				

Occupational Safety & Health Management System Case Example 6-2 6

	OHS	OCECD OPERATIONAL COM PROCEDURE			Sect	ion 2
		Safety Inspection		5 Feb (Rev 2
				Р	age	6 of 9
NO		DESCRIPTION	Report of (tick if ob or NA applic	oserved if not		ocation & her remarks
5a.	Proper	method of removal of debris.				
5b.	of exte than 12	on of catch platform for demolition rior wall or roof from a point more 2m height if persons below are ed to falling objects.				
5c.	unauth	on of barricade to prevent orised person(s) entering the tion project site with warning sign <i>n</i> .				
5d.	times h	ng weight method to provide 1.5 neight of structure demolition zone arricade.				
5e.		hell bucket used to maintain 8m tion zone with barricade.				
6	Traffic	Control & Road Safety				
6a.		to provide alternative footpath ectional sign for pedestrians.				
6b.		g of any road or lanes leading to am of 100m or more.				
6c.	tempor	e to display any or adequate rary sign, cone, rotating lamp or ndication for temporary road-lanes e.				
6d.		to maintain barricades, blinkers, g lamps in good working condition.				
6e.		e to display adequate warning sign regic location.				
6f.	suitabl	to provide barrication with e warning sign and light when carry out near any roads / ays.				
6g.	debris,	g of equipment / machineries, material or thing in such a er as to cause obstruction to				

Occupational Safety & Health Management System Case Example 6-2 7

	OHS	OCECD OPERATIONAL CON PROCEDURE		9	Sect	ion 2
		Safety Inspection		5 Feb ()9	Rev 2
		Safety Inspection	Page 7 of 9			7 of 9
NO		DESCRIPTION	Report (tick if ol or NA applic	bserved if not	_	ocation & her remarks
		s using the public street and rian footway.				
6h.		to rectify road depression or s immediately.				
6i.	truck m	to provide collision attenuator / ounted attenuator (TMA) for on road with speed limit 70kph ove.				
7	Cranes	3				
7a.	Sound	underlying material for footing.				
7b.	Provide	e capacity chart.				
7c.	corresp	or for safe working load bond to radius of jib and warning ben radius is unsafe.				
7d.	No trav	el of crane with suspended load.				
7e.		on of lifting the Site Supervisor nal man.				
8	Electri	cal				
8a.		on of proper warning sign in 4 languages where electrical circuit				
8b.	Protect damag	ive measures taken to prevent es.				
8c.		supported on proper insulator and bed over rails or brackets.				
8d.		ng shall be left on ground or floor all be protected.				
9	Safe M	eans of Access				
9a.		eans of access to be provide to glevels above or below ground.				
9b.	Provisi	on of hand hold to ladder.				
9c.	Ladder	shall not stand on loose bricks or				

Occupational Safety & Health Management System Case Example 6-2 (8)

	OHS	OCECD OPERATIONAL COI PROCEDURE	NIROL		Sectio	on 2
	50			5 Feb		Rev 2
		Safety Inspection	Page 8 of 9			
			_		1	
NO		DESCRIPTION	Report (tick if ol or NA applic	bserved if not		ocation & er remarks
	loose p	acking.				
9d.	Ladder	shall be securely fixed.				
9e.	No und	ue swaying of ladder.				
10	Piling					
10a.		ammer shall be lowered to if is not in use.				
10b.	Provisio	on of permanent ladders.				
10c.	Warning test pile	g sign provided at 50m away from area.				
10d.	Sound driver.	footing for advancing of pile				
11	Falling	Hazard				
11a.	Open s or cove	ide or opening shall be guarded red.				
12	Preven	tion of Fire				
12a.	Provisio	on of fire extinguishers.				
13	First-A	-				
13a.	Provide	and maintain First-Aid boxes.				
13b.		ment of first aider for factory an 25 persons.				
14	Safe P	ace of Employment				
14a.	passag	es of work, floors, steps, stairs, es, gangways, must be properly ned and free from obstruction.				
14b.	provide more th fencing	foothold & handhold shall be d if a person is liable to fall from an 3m; provision of safety belt, , net and secured anchorage.				
15	Health	Requirements				
15a.		ness – Work place to be kept nd free from effluents.			<u> </u>	

Occupational Safety & Health Management System Case Example 6-2 9

<	OHS	OCECD OPERATIONAL CON PROCEDURE	VIROL	5	Sectio	on 2
				5 Feb 0)9	Rev 2
		Safety Inspection		Po	age 9	9 of 9
NO		DESCRIPTION	Report (tick if o or NA applie	if not		ocation & er remarks
15b.	work p	tion-Provision of ventilation for lace which generate harmful vapours or other impurities.	аррік	20163		
15c.		g - Provision and maintain ant & suitable lighting.				
15d.		ge - Provision and proper mance of drainage system.				
15e.		ry – Sufficient and properly ined toilet facilities.				
16	Others	6				
1 6a.	Non-co proced	ompliance with approved lures for beam launching work.				
16b.	like pil cranes	e to control unsafe acts of workers, lioning on dumpers / excavators / s, improper use of connectors / for electrical equipments, etc.				
16c.	and by any go boards	e to comply with any written law relaws, rules and regulations of wernment ministry, statutory s or other authorities which are able or relevant to the execution of rks.				
INSPE		ND WITNESSED BY:				
Inspection done by: Name:		Re	bcontrac presenta me:		if applicable	
Signa	ature, Da	te and Time:	Się	gnature, D	ate &	Time:

6.3 Case Example 6-3

1) Outline

This format is a record for toolbox meeting in which contents of works for the day, attentions on safety, health and hygiene, methodologies for work and signatures of all attendees are to be filled. (Case Example 6-3).

Likewise toolbox meetings, "Three Five-Minute Activity Campaigns": 1) five-minute safety talks before starting work, 2) five-minute safety confirmation at the start of work and 3) five-minute cleaning before ending work, are practiced by this corporation. Samples of documents are omitted in this case.

2) Case Example

The Case Example 6-3 is on the following page.

Г

							FR Signature Chữ ki	
		T	oolbox Mee	ting				
			io cáo an toàn hà	-				
Site				Date (ngày	·			
Công trường Cooperation				Foreman				
company !	unt of model	NIA: J.		Đốc công	6-4-1-	<u> </u>		
	ent of work (ινοι αυ	ing công việc)	Sa	rety ny	/giene	attention (Chú ý về an toàn)	
1.				·····				
2							<u> </u>	
3.				-				
4.							·	
5.								
Clean up the wo	rking place	0 minu	ites before ending w				g thì công 10 phút trước khi ra về).	
We do so. (measures). Biện pháp dâm bảo an toàn				Check b			ks (The check is o sign.) ra trước khi làm việc	
1.				1.				
2.				2.				
3.				3.				
4.				4.				
All workers' signati Chữ kí của tất cả cô			Number of people Số lượng người	:			Attention Chú ý	
1.	ng man						Take proceedings of the safety meeting after the morning	
2.			12.	·····			gathering, and pass the person in charge each foreman. - Buổi họp an toàn bắt đầu sau tập thể dục buổi sáng.	
3.			13.			:5		
 4.		iên me	[4.			iên m(·All worker names are signatures of	
5.		: Newcomer Thành t	15.	ành vi	ành vi	own handwriting. - Lấy chữ kí của tất cả công nh		
6.			16.			er Th	• To newcomers put o sign to the own	
о. 7.			17.		handwriting signature column, and let them receive the newcomer			
					o : Ne	education. -Thành viên mới phải kí vào		
8			18.				trong cột chữ kí.	
9.		-	19.		<u> </u>	[
10.			20.			ŀ		

Т

6.4 Case Example 6-4

1) Outline

This is another toolbox meeting format which differs slightly from the earlier example, Case Example 6-3-1. It consists of fill-out forms of the work, quality and safety attentions and safety instructions posed by contractors. It also works as risk assessment sheet as it requires each worker to check by him/herself on potential risks, hazards and preventive measures that should be taken on the day.

2) Case Example

The Case Example 6-4 is on the following page.

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					Tool B	Tool Box Meeting Record	ecord			
Person's name (In own handwriting an ID. No. Name ID. No. Name $			dinoM	Дау	ruoH		Company name		Person in charge	
ID. No.NameID. No.Name $ <				Person's na	me (In own	handwriting	and the full n ₆	ıme).		
i i	D. No.	Name	ID. No.	Name	ID. No.	Name	ID. No.		ID. No.	Name
$rac{7}{8}$ $rac{12}{8}$ $ ac{8}{8}$ $ ac{12}{10}$ $ ac{1}{10}$	1			9		11		16		21
$ <	61			7		12		17		22
ption of works 14 indication of works 15 intral instruction, and notes 16 insk/Hazard(What's the risk today?) 1 ing No	0			×		13		18		23
iption of works 10 15 intal instruction, and notes 15 nent 15 tisk/Hazard(What's the risk today?) 16 ing No Yes	4			6		14		19		24
ption of works ental instruction, and notes nent cisk/Hazard(What's the risk today?) ing No No Nes Person in charge	ũ			10		15		20		25
a of works	Content of r	neeting								
instruction, and notes		Descriptic		70			Safety ins	truction and not	ses	
instruction, and notes										
Hazard(What's the risk today?) No Jös Person in charge	Quality, en	vironmenta		on, and notes						
Hazard(What's the risk today?) No No	•									
<pre>//Hazard(What's the risk today?) No</pre>	Today's risk	assessmen	t							
No Yes Person in charge	1. Pot	tential Risk	/Hazard(W	hat's the risk t	oday?)		2. Preventiv	re Measure(How	are you pre-	vent?)
No Yes Person in charge										
work before trunsh time, etc.	There there an sither sickness	n injury or nor leaving	No		m in charge		Project M			Duty Safety
Note		. ume, etc.								
	Note									
									L	Tool Box Meeting

6.5 Case Example 6-5

1) Outline

This is a sample of reviewed Safety Plan Document. This extract of Safety Plan Document is shown as Case Example 6-5.

2) Case Example

The Case Example 6-5 is on the following page.

Occupational Safety & Health Management System Case Example 6-5

and improvement.

6. Management Review

6.1 Site safety Management Committee (SSMC)

Objective and Function

A Site Safety Management Committee (SSMC) shall be established to review and monitor the implementation of the safety plan, effectiveness of the safety and health measures taken and seeking the co-operation and commitment of staff at all levels. The SSMC meeting will be held every month with participants of Representatives from the Employer and the Consultant, with Contractor representatives.

Other than SSMC meeting the management having weekly progress meeting held on site office every Sunday, during this meeting discussing all weekly safety aspects and correction requirements discuss with management.

Terms of Reference:

- 1. To ensure the implementation of project safety plan or the contractor' site safety obligations set out in the contract;
- 2. To review and monitor the effectiveness of the safety and health measures taken on sit and recommend for improvement;
- 3. To review the established safety rules, risk assessments or safe working procedures.
- 4. To discuss hazards associated with the sit operations and necessary safety precautions.
- 5. To co-ordinate the interface safety measures of all subcontractors, utility undertakers or other construction parties working on the site;
- 6. To promote safety publicity and training;
- 7. To discuss and review the emergency and rescue procedures;
- 8. To review accidents those have occurred so as to recommend measures to prevent recurrences;
- 9. To review the accident statistics and safety performance of subcontractors;

Organization:

Chairman: Project Manager

- To chair the committee meeting and make final decision for opinions or disputes arising from the meeting.

Secretary: Safety Manager / Safety Officer

To call meetings, professional OHC advices; take meeting minutes and follow-up matters

6.6 Case Example 6-6

1) Outline

This document shows the amendment process of Safety Plans submitted by a corporation which controls PDCA cycle based on its own standard of safety management.

2) Case Example

The Case Example 6-6 is on the following page.

Occupational Safety	& Health Management System	Case Example 6-6
Occupational Salety	a nealli manayemeni system	Case Example 0-0

SECTION 1 : SAFETY POLICY STATEMENT SAFETY AND HEALTH POLICY

Safe construction is a social commitment that all companies should fulfill. We strive for the consolidation and the improvement of the safety and health environment so that all workfolk can feel secure, and also being accepted from society with the confidence and empathty as the basis of corporate activities of "Thorough Pursuit of Safety First".

1. ELIMINATION OF ACCIDENT AND INJURY

We not only comply with the provisions of Occupational Safety and Health Regulations and Health Regulations and Our Construction Safety and Health Control, but also aim to eliminate all accidents and injuries with responding to the variety situations and managing the adequate safety and health.

Especially to the specified works as "Priority Measures" and "Priority Dangerous Work and Dangerous Work", we attempt to prevent any accident with concentrated efforts.

2. ACCIDENT PREVENTION TO THIRD PARTIES

Accidents to the community must be definitely avoided with every maginable means. Particularly for the construction at urban districts, the construction plan that includes the measures of accident prevention to the third parties as the most important aspect should be drawn up and implemented thoroughly.

3. IMPROVEMENT OF SAFETY AND HEALTH STANDARDS

We strive for the education of safety and health to the project office persons involved and enhance the standard level of safety and health continuously with managing the cycle of "Plan- Do - Check- Act" (=Improvement)approproately Based on "Occupational Health and Safety Management System" that specifies in reducing any risk at the job site steadily.

Under these policies, all employees of $\bigcirc\bigcirc$ and subcontractors should bring together their own management skills and enthusiasm for safety, and strongly develop the compulsory activies of safety and health managemant.

7 Partnership with Locals etc.

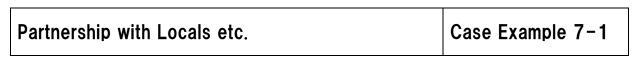
7.1 Case Example 7-1

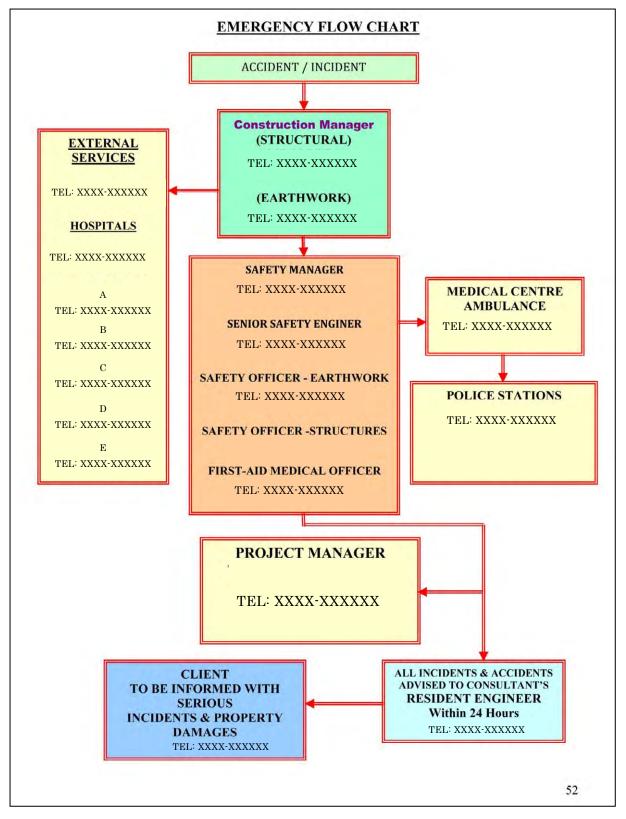
1) Outline

This is an emergency flow chart which shows contact addresses of person(s) in charge of the project and relevant agencies (the Engineer and the Employer). It also includes contact addresses of the police station, the fire station, and the major hospitals.

2) Case Example

The Case Example 7-1 is on the following page.





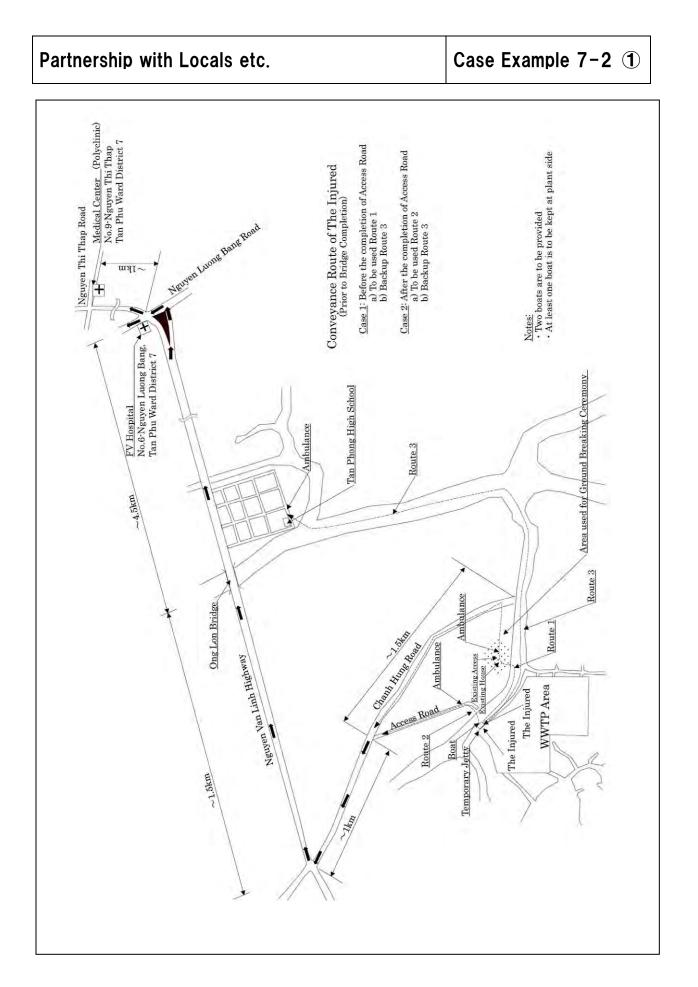
7.2 Case Example 7-2

1) Outline

In addition to the emergency flow chart, this document is elaborated to use a route map for obtaining easy understanding of conveyance of the injured (the route which should be taken to send injured workers to the hospital) (Case Example 7-2). The main priority and focus of safety management are placed on the workers at construction site. This corporation conducts monthly safety meetings, suggest initiatives and review safety management activities, in order to further develop safety awareness and improve measures of safety management.

2) Case Example

The Case Example 7-2 is on the following page.



Partnership with Locals etc.

Case Example 7-2 2

PROJECT NAME

PROJECT SAFETY PLAN

		 appropriate measures to be taken; Review of sub- contractors safety performance. 	
Monthly	Project Manager Construction Managers Chief manager The Engineer The Employer Subcontractors Project Manager	 Present overall safety performance and statistics of the Project; Identify good practice and bad practices; Identify the following months training program; Appraise the participants of the training carried out to date; Proposal of incentives; Open discussion; 	 Contained in the Monthly Report and presentation material;

3.04

Safety Information and Training

With reference to the OHSRP Section 7, the training and briefing are in principle the same:

Safety Inductions

All persons that are and shall be engaged on this Project shall be required to undergo an initial Safety Induction. The Safety Induction shall be conducted in English and Vietnamese. The Safety Manager and/or delegates shall conduct the Safety Induction. The Safety Induction is mandatory to any person wishing to visit/enter/work on or within the Project site. The induction shall include but not limited to:

7.3 Case Example 7-3

1) Outline

This shows an example of safety management plan at the construction site where there is a high possibility of influence from active volcanoes. The plan states own evacuation policy and the monitoring system specified this volcanic environment, which are both mentioned in Safety Plan Document.

2) Case Example

The Case Example 7-3 is on the following page.

Case Example 7-3 1

Partnership with Loc	cals	etc.
----------------------	------	------

Form 12 - Working Safety Plan 13.4.7 **Evacuation Plan** 13.4.7.1 Introduction The project area is located at foot of Mt. Merapi, which is one of the most active volcanoes in Indonesia. Merapi volcano activity is characterized by a very frequent eruption ranging from 1 to 5 years of time duration, (last eruption took place in 2006), and eruption is usually accompanied by the debris flows which occur with intensive rainfall. Therefore, in case an eruption or debris flow took place during construction period, evacuation plan shall be prepared properly to ensure workers' lives and the Employer and the JO's properties. 13.4.7.2 Collection of Volcanic, Weather Information a) Governmental observatory Volcanic and weather information are provided from monitoring post under the control of Volcanologi office established by Indonesian Government for monitoring volcanic activities. There are three monitoring post office around the project area, which are Babadan, Turgo and Balerante. Table 5 shows names of monitoring post and facility codes which are related to nearest monitoring post. Emergency information as to volcano activities and weather is transmitted through HT. In view of this at least one HT shall be allocated each site with specified frequency. The JO's supervisors and safety staff shall always pay adequate attention to those information and in case intercepting alert signal they shall make workers and equipments evacuate from site to secure place as soon as possible.

Partnership with Locals etc.

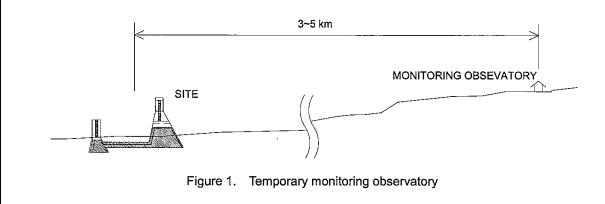
Form 12 - Working Safety Plan

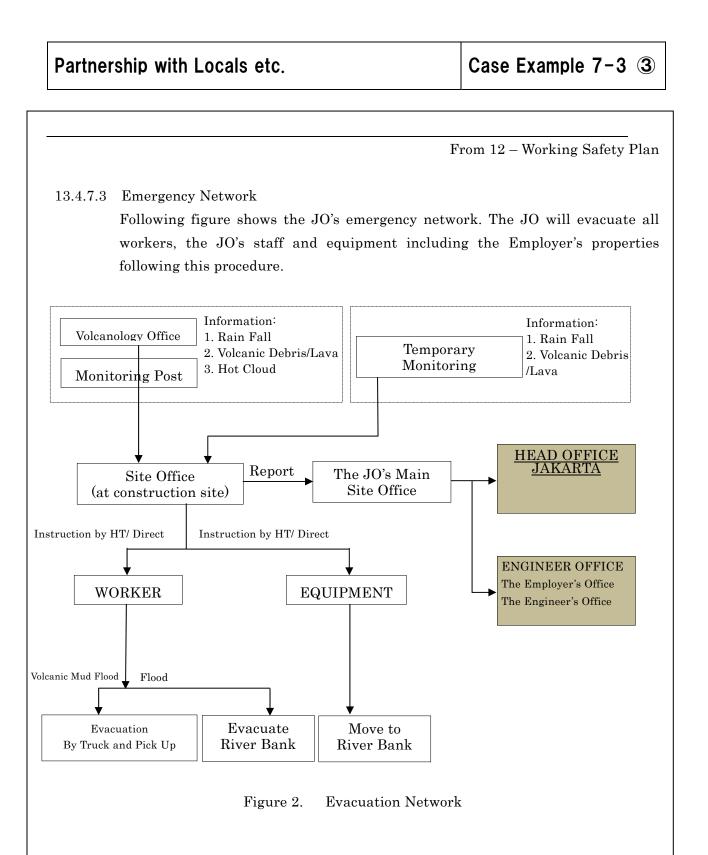
			nonhoring Post
No	Observatory	River	Facility Code
		Basin	
		Apu	AP-RD2, AP-RD1a
1	Babadan	Pabelan	PA-RD2, PA-RD5
	Dauadan	Trising	TR-RD1, TR-RD8
		Senowo	SE-RD5, SE-RD6a
		Blongkeng	BL-RD3
2	Turgo	Putih	PU-RD1 ~7
	Turgo	Batang	BA-RD1 ~ 8
		Bebeng	BE-RD1
3	Balerante	Kuning	KU-RD2
3	Daterante	Woro	WO-RD2

Table 5. Monitoring Post

b) The JO's temporary observatory

The JO will establish temporary monitoring observatory to monitor the upstream condition of river such as the change of water flow and level, rain fall and weather. It will provide the information to site as promptly as possible in case debris flow or other disaster caused by intensive rain fall or volcanic activity is likely to take place. A monitoring observatory will be built at three to five kilometers away from uppermost stream site location in each river. A watch man will be stationed at a monitoring observatory while any sites located downstream are under operation. HT will be used as a communication tool.





7.4 Case Example 7-4

(see also Case Example 2-4)

1) Outline

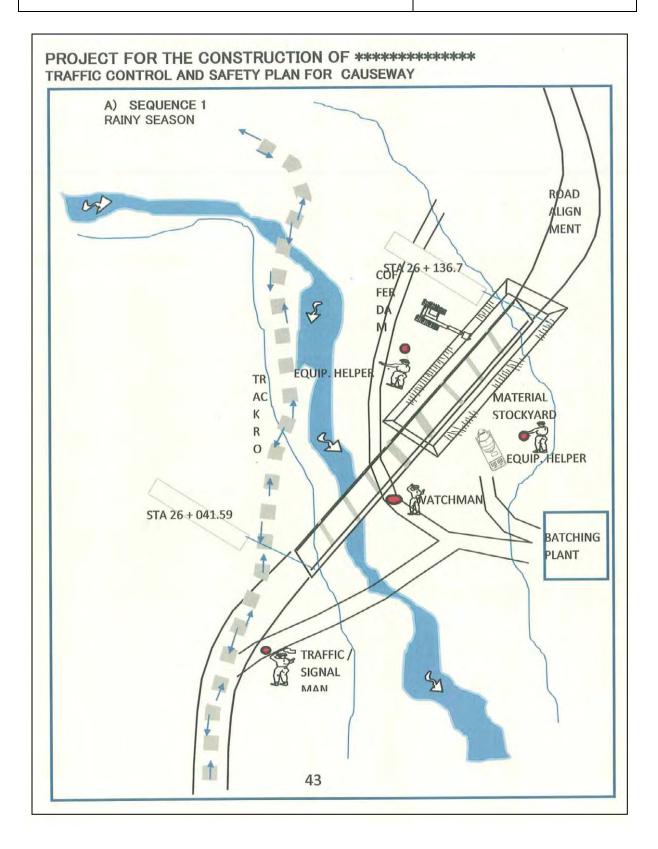
This is a document (traffic control and safety plan for causeway) which shows safety management in an area where there is a high possibility of landslides due to its geographical features and traffic accidents caused by external automobiles.

2) Case Example

The Case Examples 7-4-1, 7-4-2 and 7-4-3 are on the following pages.



Case Example 7-4-1 ①





Case Example 7-4-1 (2)

